

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 26.05.2011

Version: 4.0

Product: **Trilon® A 92 R**

(ID no. 30043433/SDS_GEN_EU/EN)

Date of print 27.05.2011

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trilon® A 92 R

Chemical name: trisodium nitrilotriacetate

REACH registration number: 01-2119519239-36-0002

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: complexing agents for the chemical industry

For the detailed identified uses of the product see appendix of the safety data sheet.

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-44676

E-mail address: detergents-formulators@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:
Warning

Hazard Statement:

H319 Causes serious eye irritation.
 H302 Harmful if swallowed.
 H351 Suspected of causing cancer.

Precautionary Statements (Prevention):

P201 Obtain special instructions before use.
 P281 Use personal protective equipment as required.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P202 Do not handle until all safety precautions have been read and understood.
 P270 Do not eat, drink or smoke when using this product.
 P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/attention.
 P301 + P330 IF SWALLOWED: rinse mouth.
 P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

According to Directive 67/548/EEC or 1999/45/EC

Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation 1907/2006/EC

Hazard symbol(s)

Xn Harmful.



R-phrases(s)

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R22	Harmful if swallowed.
R36	Irritating to eyes.
R40	Limited evidence of a carcinogenic effect.
S-phrase(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46	If swallowed, seek medical advice immediately and show this container or label.
S36/37	Wear suitable protective clothing and gloves.
S2	Keep out of the reach of children.

Hazard determining component(s) for labelling: TRISODIUM NITRILIO TRIACETATE

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute tox. 4 (oral)
Eye dam./irr. 2
Carc. 2

According to Directive 67/548/EEC or 1999/45/EC

Carc. Cat. 3

Possible Hazards:
Harmful if swallowed.
Irritating to eyes.
Limited evidence of a carcinogenic effect.

For the classifications not written out in full in this section the full text can be found in section 16.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):
No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/Information on Ingredients

Substances

Chemical nature

trisodium nitrilotriacetate
CAS Number: 5064-31-3
EC-Number: 225-768-6
INDEX-Number: 607-620-00-6

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, gastrointestinal complaints, kidney damage

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding material and dispose of.
Avoid raising dust.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Provide exhaust ventilation. Avoid inhalation of dusts.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure Controls/Personal Protection

Control parameters

PNEC

freshwater: 0.93 mg/l

marine water: 0.093 mg/l

intermittent release: 0.915 mg/l

STP: 540 mg/l

sediment (freshwater): 3.64 mg/kg

sediment (marine water): 0.364 mg/kg

soil: 0.182 mg/kg

oral (secondary poisoning): 0.2 mg/kg

DNEL

worker:

Short-term exposure - systemic and local effects, Inhalation: 5.25 mg/m³

worker:

Long-term exposure - systemic and local effects, Inhalation: 3.5 mg/m³

consumer:

Short-term exposure - systemic and local effects, Inhalation: 1.75 mg/m³

consumer:

Long-term exposure- systemic effects, oral: 0.5 mg/kg bw/day

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	powder	
Colour:	white	
Odour:	product specific	
pH value:	10.5 - 11.5 (10 g/l, 23 °C)	(DIN 19268)
Melting point:	The substance / product decomposes therefore not determined.	

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decomposition point:	> 150 °C The substance / product decomposes.	
Flash point:	Study scientifically not justified.	
Vapour pressure:	6 hPa (approx. 25 °C) contains water, Literature data.	(measured)
Density:	1.77 g/cm ³ (20 °C)	(OECD Guideline 109)
Solubility in water:	approx. 500 g/l	
Solubility (qualitative) solvent(s):	polar solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	-13.2 (20 °C)	(calculated)

Other information

Self heating ability:	It is not a substance capable of spontaneous heating.	
Bulk density:	810 - 930 kg/m ³	
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution	150 µm	(D50)

10. Stability and Reactivity**Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:	Corrodes metals in the presence of water or moisture.	
Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

Avoid humidity. Avoid dust formation.

Incompatible materialsSubstances to avoid:
amphoteric metals, light metals

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): 1,000 - 2,000 mg/kg (BASF-Test)

LC50 rat (by inhalation): > 5 mg/l 4 h

No mortality was observed. Literature data. An aerosol was tested.

LD50 rabbit (dermal): > 10,000 mg/kg (other)

An aqueous solution was tested.

Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (Draize test)

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

Most of the results from the numerous studies available show no evidence of a mutagenic effect.

Experimental/calculated data:

Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given in the drinking water in high doses, a carcinogenic effect was observed. In long-term animal studies in which the substance was given in

high doses by feed, a carcinogenic effect was observed. A carcinogenic potential can essentially be excluded after a single or short-term exposure to the substance.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The substance may cause damage to the kidney after repeated ingestion.

Aspiration hazard

Not relevant.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Pimephales promelas* (APHA 1971, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. Literature data.

Aquatic invertebrates:

EC50 (96 h) 98 mg/l, *Gammarus* sp. (other)

Literature data.

Aquatic plants:

EC50 (72 h) > 91.5 mg/l (growth rate), *Scenedesmus subspicatus* (Guideline 92/69/EEC, C.3, static)

The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:

EC50 (8 h) 3,200 - 5,600 mg/l, *Pseudomonas fluorescens* (static)

The details of the toxic effect relate to the nominal concentration. Literature data.

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Assessment of terrestrial toxicity:

Study scientifically not justified.

Persistence and degradability

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Assessment biodegradation and elimination (H₂O):
Readily biodegradable (according to OECD criteria).

Elimination information:

90 - 100 % BOD of the ThOD (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C)

Assessment of stability in water:

Study scientifically not justified.

Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

Bioconcentration factor: < 3 (96 h), Brachydanio rerio (measured)

Does not significantly accumulate in organisms.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

Additional information

Sum parameter

Theoretical Oxygen Demand (ThOD): 524 mg/g

Other ecotoxicological advice:

Do not release untreated into natural waters.

13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Chemical Safety Assessment

Chemical Safety Assessment performed

16. Other Information

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

Carc. Cat. 3 Carcinogenic substances Category 3: Substances which cause concern for man owing to possible carcinogenic effects.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Annex: Exposure Scenarios

1. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in industrial settings), (solid preparations), (mid powder, medium dustiness)

SU3; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version Worker - inhalative, long-term - local und systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.003
	The exposure estimate represents the 90th percentile of the

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	exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.286
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %

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Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
Use suitable eye protection.	
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	

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Provide basic employee training to prevent/minimize exposures. Regular inspection and maintenance of equipment and machines.	
Use suitable eye protection. Wear suitable working clothes.	

Exposure estimate and reference to its source

PROC14	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.286
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.

PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.

Additional good practice advice

Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.

Guidance to Downstream Users

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

Contributing exposure scenario	
Use descriptors covered	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide extract ventilation to points	Effectiveness: 90 %

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where emissions occur (LEV).	
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Provide basic employee training to prevent/minimize exposures. Regular inspection and maintenance of equipment and machines.	
Use suitable eye protection. Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC19	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

2. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in industrial settings), (solid preparations), (mid powder, medium dustiness)

SU3; ERC2, ERC3; PROC1, PROC2, PROC15, PROC3, PROC14, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC19, PROC9

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	< 15 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version Worker- inhalative, short-term - local und systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.002
	The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	ECETOC TRA v2.0 Worker; modified version Worker - inhalative, long-term - local und systemic
Exposure estimate	0.001 mg/m ³
Risk Characterization Ratio (RCR)	0.0003
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	

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Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	< 15 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Regular inspection and maintenance of equipment and machines.	
Use suitable eye protection.	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.095
	The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.014
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	< 15 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	

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Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.19
	The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.028
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	< 15 min 220 days per year
Indoor/Outdoor	Indoor

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Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
Use suitable eye protection.	
In case no suitable local exhaust ventilation is present., Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.095
	The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.014
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

3. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in industrial settings), (solid preparations), (fine powder, high dustiness)

SU3; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial

Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 2.5 %
Physical state	Solid, high dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures

Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source

PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
Exposure estimate	Worker - inhalative, long-term - local und systemic
Risk Characterization Ratio (RCR)	0.0003 mg/m ³
	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2, PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC

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	TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.025 mg/m ³
Risk Characterization Ratio (RCR)	0.007
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC4, PROC5, PROC8b, PROC19	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.625 mg/m ³
Risk Characterization Ratio (RCR)	0.179
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC8a	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1.25 mg/m ³
Risk Characterization Ratio (RCR)	0.357
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. Use domain: industrial

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Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 2.5\%$
Physical state	Solid, high dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC9	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC14	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.25 mg/m ³
Risk Characterization Ratio (RCR)	0.071
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local
Exposure estimate	0.125 mg/m ³
Risk Characterization Ratio (RCR)	0.036
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal

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Dermal exposure is considered to be not relevant.
Additional good practice advice
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.
Guidance to Downstream Users
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

4. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in industrial settings), (handling as solid in solution)

SU3; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendring operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial

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Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 55 %
Physical state	Liquid, low fugacity Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	

5. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in professional settings), (solid preparations), (mid powder, medium dustiness)

SU22; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional

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	controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures

Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source

PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.003
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.

PROC2, PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.286
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.

Additional good practice advice

Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.

Guidance to Downstream Users

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where

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	<p>opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendring operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional</p>
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures

Provide basic employee training to prevent/minimize exposures.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
Use suitable eye protection.	
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source

Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.

Additional good practice advice

Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.

Guidance to Downstream Users

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

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Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines. Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes. Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: professional

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Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Regular inspection and maintenance of equipment and machines. Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes. Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

6. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in professional settings), (solid preparations), (mid powder, medium dustiness)

SU22; ERC2, ERC3; PROC1, PROC2, PROC3, PROC15, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC15: Use a laboratory reagent. Use domain: professional

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	< 15 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.002
	The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.001 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
PROC2, PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	1.0 mg/m ³
Risk Characterization Ratio (RCR)	0.19
	The short-term exposure value represents the 95th

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	percentile of the exposure distribution.
PROC2, PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.029
	The exposure estimate represents the 90th percentile of the exposure distribution.
PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.095
	The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.014
	The exposure estimate represents the 90th percentile of the exposure distribution.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	< 15 min 220 days per year

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Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
Use suitable eye protection.	
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker- inhalative, short-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.095
	The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.014
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

7. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in professional settings), (solid preparations), (fine powder, high dustiness)

SU22; ERC2, ERC3; PROC1, PROC2, PROC3, PROC15, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk

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	characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC15: Use a laboratory reagent. Use domain: professional

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 2.5\%$
Physical state	Solid, high dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.0025 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2, PROC3, PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.125 mg/m ³
Risk Characterization Ratio (RCR)	0.0357
	The exposure estimate represents the 90th percentile of the

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	exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 2.5 %
Physical state	Solid, high dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC9	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic

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Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC4, PROC5, PROC8a, PROC8b, PROC14, PROC19	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1.25 mg/m ³
Risk Characterization Ratio (RCR)	0.357
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

8. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures, (use in professional settings), (handling as solid in solution)

SU22; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation of preparations As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC3: Formulation in materials As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 55 %
Physical state	Liquid, low fugacity
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	

9. Short title of exposure scenario

Industrial applications, (solid preparations), (mid powder, medium dustiness)

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SU3; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. Use domain: industrial

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide basic employee training to prevent/minimize exposures. Regular inspection and maintenance of equipment and machines.	
Use suitable eye protection. Wear suitable working clothes.	

Exposure estimate and reference to its source	
PROC14	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1 mg/m ³

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Risk Characterization Ratio (RCR)	0.286
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Provide basic employee training to prevent/minimize exposures. Regular inspection and maintenance of equipment and machines.	
Use suitable eye protection. Wear suitable working clothes.	

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Exposure estimate and reference to its source	
PROC19	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

10. Short title of exposure scenario

Industrial applications, (solid preparations), (mid powder, medium dustiness)
 SU3; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b,
 ERC11a, ERC11b; PROC1, PROC2, PROC3, PROC14, PROC4, PROC5, PROC8a, PROC8b, PROC9,
 PROC19, PROC21, PROC22, PROC23, PROC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk

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	characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: industrial

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 5\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

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Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.0005 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC3, PROC14	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.014
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.025 mg/m ³
Risk Characterization Ratio (RCR)	0.007
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
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exposure estimates)

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.25 mg/m ³
Risk Characterization Ratio (RCR)	0.071
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	

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exposure estimates)

Contributing exposure scenario	
Use descriptors covered	PROC21: Low energy manipulation of substances bound in materials and/or articles PROC22: Potentially closed processing operations (with minerals) at elevated temperature PROC23: Open processing and transfer operations (with minerals) at elevated temperature PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.15 mg/m ³
Risk Characterization Ratio (RCR)	0.043
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

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11. Short title of exposure scenario

Industrial applications, (solid preparations), (granules, low dustiness)

SU3; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC9, PROC13, PROC14, PROC15, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in

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	open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 20\%$
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance

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	has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.002 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC13: Treatment of articles by dipping and pouring. PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 20 %
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.02 mg/m ³
Risk Characterization Ratio (RCR)	0.006
	The exposure estimate represents the 90th percentile of the

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	exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC10: Roller application or brushing PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 20 %
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.029
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value

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	corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

12. Short title of exposure scenario

Industrial applications, (not air dispersive), (handling as solid in solution)
 SU3; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19, PROC10, PROC12, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other

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	<p>process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendring operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: industrial</p>
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 55 %
Physical state	Liquid, low fugacity
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures

Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source

Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.

Additional good practice advice

Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.

Contributing exposure scenario

Use descriptors covered	PROC10: Roller application or brushing PROC12: Use of blow agents in manufacture of foam. PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 55 %
Physical state	Liquid, low fugacity

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	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	

13. Short title of exposure scenario

Industrial applications, (air dispersive), (handling as solid in solution)

SU3; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC7, PROC17, PROC18

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	

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Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 10 %
Physical state	liquid
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Indoor/Outdoor	Outdoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.011 mg/m ³
Risk Characterization Ratio (RCR)	0.003
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
PROC2, PROC3, PROC4, PROC8a, PROC8b	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.107 mg/m ³
Risk Characterization Ratio (RCR)	0.031
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value

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	corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
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Additional good practice advice

Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.

Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.

Guidance to Downstream Users

For scaling see: <http://www.ecetoc.org/tra> Please note that a modified version has been used (see exposure estimates)

Contributing exposure scenario

Use descriptors covered	PROC7: Industrial spraying Surface spraying of liquids Use domain: industrial
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 3\%$
Physical state	liquid, not viscous
Duration and Frequency of activity	Exposure duration: 360 min 220 days per year
Indoor/Outdoor	Indoor, Outdoor
	Assumes use at not more than 20°C above ambient temperature.
Amounts used	Amount per use 3 l/min

Risk Management Measures

Provide basic employee training to prevent/minimize exposures. Ensure that the task is carried out only downward.

Use suitable eye protection.

Regular inspection and maintenance of equipment and machines. Ensure doors and windows are opened (general ventilation).

Wear suitable working clothes.

Exposure estimate and reference to its source

Assessment method	Advanced REACH Tool v1.0
	Worker- inhalative, short-term - local und systemic
Exposure estimate	2.2 mg/m ³
Risk Characterization Ratio (RCR)	0.419
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Advanced REACH Tool v1.0
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1.3 mg/m ³
Risk Characterization Ratio (RCR)	0.371
	The exposure estimate represents the 75th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.

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Additional good practice advice
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.
Guidance to Downstream Users
For scaling see: http://www.advancedreachtool.com

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions and in partly open process. PROC18: Greasing at high energy conditions. Activities with open liquid surfaces or open reservoirs - activity with agitated surfaces Application of liquids in high speed processes (large scale) Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 10 %
Physical state	liquid, viscous
Process temperature	50 - 150 °C
Duration and Frequency of activity	Exposure duration: 360 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.0
	Worker- inhalative, short-term - local und systemic
Exposure estimate	2.1 mg/m ³
Risk Characterization Ratio (RCR)	0.4
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Advanced REACH Tool v1.0
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1.2 mg/m ³
Risk Characterization Ratio (RCR)	0.343
	The exposure estimate represents the 75th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	

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Guidance to Downstream UsersFor scaling see: <http://www.advancedreachtool.com>

14. Short title of exposure scenario

Professional applications, (mid powder, medium dustiness)

SU22; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
In case no suitable local exhaust	

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ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines. Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes. Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Regular inspection and maintenance of equipment and machines. Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes. Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³

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Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

15. Short title of exposure scenario

Professional applications, (mid powder, medium dustiness)

SU22; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PROC1, PROC2, PROC3, PROC15, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC19, PROC21, PROC23, PROC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles

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	and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC15: Use a laboratory reagent. Use domain: professional

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	

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Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.0005 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.025 mg/m ³
Risk Characterization Ratio (RCR)	0.007
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2, PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.014
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	
Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and

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	articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC19: Hand-mixing with intimate contact and only PPE available. PROC21: Low energy manipulation of substances bound in materials and/or articles PROC23: Open processing and transfer operations (with minerals) at elevated temperature PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
Exposure estimate	Worker - inhalative, long-term - local und systemic
Risk Characterization Ratio (RCR)	0.25 mg/m ³
	0.071
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	

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exposure estimates)

16. Short title of exposure scenario

Professional applications, (granules, low dustiness)

SU22; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC15, PROC4, PROC5, PROC14, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk

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	characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 20\%$
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance	

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of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.002 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 20 %
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic

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Exposure estimate	0.02 mg/m ³
Risk Characterization Ratio (RCR)	0.006
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 20 %
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.2 mg/m ³
Risk Characterization Ratio (RCR)	0.057
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value represents the 95th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2.
Assessment method	Qualitative assessment
	Worker - dermal

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	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 20 %
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.029
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	

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Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
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Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.
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Guidance to Downstream Users

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

17. Short title of exposure scenario

Professional applications, (not air dispersive), (handling as solid in solution) SU22; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19, PROC10, PROC12, PROC13
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Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large

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	containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation. PROC15: Use a laboratory reagent. PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 55\%$
Physical state	Liquid, low fugacity
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures

Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	

Exposure estimate and reference to its source

Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.

Additional good practice advice

Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.

Contributing exposure scenario

Use descriptors covered	PROC10: Roller application or brushing PROC12: Use of blow agents in manufacture of foam. PROC13: Treatment of articles by dipping and pouring. Use domain: professional
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Operational conditions

Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 55\%$
Physical state	Liquid, low fugacity
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor

Risk Management Measures

Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	

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Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	

18. Short title of exposure scenario

Professional applications, (air dispersible), (handling as solid in solution)
 SU22; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC20, PROC11, PROC17, PROC18

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC5: Industrial use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC6b: Industrial use of reactive processing aids As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC7: Industrial use of substances in closed systems. As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in

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	open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 10\%$

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Physical state	liquid
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Indoor/Outdoor	Outdoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.011 mg/m ³
Risk Characterization Ratio (RCR)	0.003
	The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC20: Heat and pressure transfer fluids in dispersive use but closed systems Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 10 %

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Physical state	liquid
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Indoor/Outdoor	Outdoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version, ECETOC TRA modified version: The concentration of the substance has been considered using a linear approach.
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.107 mg/m ³
Risk Characterization Ratio (RCR)	0.031
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Surface spraying of liquids Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 3 %
Physical state	liquid, not viscous
Duration and Frequency of activity	360 min 220 days per year
Indoor/Outdoor	Indoor
	Assumes use at not more than 20°C above ambient temperature.
Amounts used	Amount per use 3 l/min
Risk Management Measures	
Provide basic employee training to	

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prevent/minimize exposures. Ensure that the task is carried out only downward.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines. Ensure doors and windows are opened (general ventilation).	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.0
	Worker- inhalative, short-term - local und systemic
Exposure estimate	2.2 mg/m ³
Risk Characterization Ratio (RCR)	0.419
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Advanced REACH Tool v1.0
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1.3 mg/m ³
Risk Characterization Ratio (RCR)	0.371
	The exposure estimate represents the 75th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.advancedreachttool.com	

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions and in partly open process. PROC18: Greasing at high energy conditions. Activities with open liquid surfaces or open reservoirs - activity with agitated surfaces Application of liquids in high speed processes (large scale) Use domain: professional
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 10 %
Physical state	liquid, viscous
Process temperature	50 - 150 °C
Duration and Frequency of activity	Exposure duration: 360 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	

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Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.0
	Worker- inhalative, short-term - local und systemic
Exposure estimate	2.1 mg/m ³
Risk Characterization Ratio (RCR)	0.4
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Advanced REACH Tool v1.0
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1.2 mg/m ³
Risk Characterization Ratio (RCR)	0.343
	The exposure estimate represents the 75th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.advancedreachtool.com	

19. Short title of exposure scenario

Use in Adhesives, Use in Sealants, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC1

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in

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	open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC1: Adhesives, Sealants, Glues from tubes, Bottled glue, universal glue
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 240 min 12 days per year
Indoor/Outdoor	Indoor
Room size	20 m3
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
	The calculated exposure value is negligibly low.
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC1: Adhesives, Sealants, Super glue, Bottled glue, Carpet glue
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Duration and Frequency of activity	Exposure duration: 240 min 52 days per year
Indoor/Outdoor	Indoor
Room size	58 m3
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, long-term - local und systemic
	The calculated exposure value is negligibly low.

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Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

20. Short title of exposure scenario

Use in/as Air care products, (consumer use), (spray products)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC3

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC3: Air care products., Air care products (aerosol), Air care products (non-aerosol), Spray

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 1 % - <= 5 %
Physical state	liquid, not viscous
Physical state	Solid
Duration and Frequency of activity	Spray duration: 15 min

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Duration and Frequency of activity	Exposure duration: 15 min
Indoor/Outdoor	Indoor
Room size	30 m ³
	Assumes activities are at ambient temperature.
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.0
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.15 mg/m ³
Risk Characterization Ratio (RCR)	0.086
	The exposure estimate represents the 75th percentile of the exposure distribution.
Assessment method	Advanced REACH Tool v1.0
	Consumer- inhalative, long-term - local und systemic
Exposure estimate	0.084 mg/m ³
Risk Characterization Ratio (RCR)	0.048
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.advancedreachtool.com	

21. Short title of exposure scenario

Use in Disinfectants, Use in Biocidal products, Use as co-formulant in Plant protection products, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC8

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems

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	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario

Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC8: Biocidal Products., Spray - Crack and crevice application, Spray - Targeted spot application, Mixing and loading

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 5\%$
Physical state	liquid
Physical state	granular-like, Solid, high dustiness
Duration and Frequency of activity	Exposure duration: 240 min 9 days per year
Indoor/Outdoor	Indoor
Room size	20 m ³
Indoor/Outdoor	Outdoor

Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.658 mg/m ³
Risk Characterization Ratio (RCR)	0.376
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.

Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC8: Biocidal Products., Spray - Crack and crevice application, Spray - Targeted spot application, Electrical evaporator, Insect repellents The exposure scenario considers exposure of children.
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 2.5\%$
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 480 min 150 days per year

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Indoor/Outdoor	Indoor
Room size	16 m ³
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- oral, long-term - local und systemic
Exposure estimate	0.429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.858
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	ConsExpo v4.1
	Consumer- inhalative, long-term - local und systemic
Exposure estimate	0.184 mg/m ³
Risk Characterization Ratio (RCR)	0.105
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

22. Short title of exposure scenario

Use in coatings, Use in Paints, Use in Printing inks, Use in epoxy systems, Use of Liquid UP resin for repair purposes, Use of Resin paste used as fillers/putties, (consumer use)
 SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC9a, PC9b

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC9a: Coatings and paints, thinners, paint removers, Waterborne paint, Waterborne wall paint, Two-component paints, Spraying paint (Pneumatic spraying), General coatings, Gutter coating, Insulation foams, Joint colour, Floor equalizer, Wall plaster, General filler from powder, Large hole filler, Filler / putty from tubes, Two-component filler, Paint remover, Glue remover, Wall paper remover, Sealant / foam remover
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Duration and Frequency of activity	Exposure duration: 240 min 5 days per year
Indoor/Outdoor	Indoor
Room size	34 m ³
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.338 mg/m ³
Risk Characterization Ratio (RCR)	0.193
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC9b: Fillers, putties, plasters, modelling clay, Insulation foams, Floor equalizer, Wall plaster, General filler from powder, Large hole filler, Filler / putty from tubes, Two-component filler, Putty from spray
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Duration and Frequency of activity	Exposure duration: 240 min 3 days per year
Indoor/Outdoor	Indoor
Room size	57.5 m ³

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Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.266 mg/m ³
Risk Characterization Ratio (RCR)	0.152
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

23. Short title of exposure scenario

Use in Metal surface treatment, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC14

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC14: Metal surface treatment products, including galvanic and electroplating products., Metal cleaners

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Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 60 min 6 days per year
Indoor/Outdoor	Indoor
Room size	15 m3
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
	The calculated exposure value is negligibly low.
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

24. Short title of exposure scenario

Use in Surface treatment products, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC15: Non-metal-surface treatment products., Carpet cleaning (liquids)
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 110 min < 1 uses per year
Indoor/Outdoor	Indoor
Room size	58 m3
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1, Default database: cleaning and washing/floor, carpet and furniture products/carpet cleaning (liquid)
	Consumer- inhalative, short-term - local und systemic
	The calculated exposure value is negligibly low., Calculated as PC35
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC15: Non-metal-surface treatment products., Spray cleaners
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Duration and Frequency of activity	Exposure duration: 60 min 365 days per year
Indoor/Outdoor	Indoor
Room size	15 m3
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1, Default database: cleaning and washing/all purpose cleaner/spray cleaner
	Consumer- inhalative, long-term - local und systemic
Exposure estimate	0.0003 mg/m ³
Risk Characterization Ratio (RCR)	0.0002

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	The calculated exposure value is negligibly low., Calculated as PC35
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

25. Short title of exposure scenario

Use in/as Photochemicals, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC30

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC30: Photochemicals., Activities with open liquid surfaces or open reservoirs - activity with undisturbed surfaces (no aerosol formation)

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 5\%$

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Physical state	liquid, not viscous
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 360 min
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Release area	10000 cm ²
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.0
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.003 mg/m ³
Risk Characterization Ratio (RCR)	0.002
	The exposure estimate represents the 75th percentile of the exposure distribution.
Assessment method	Advanced REACH Tool v1.0
	Consumer- inhalative, long-term - local und systemic
Exposure estimate	0.002 mg/m ³
Risk Characterization Ratio (RCR)	0.001
	The exposure estimate represents the 90th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.advancedreachtool.com	

26. Short title of exposure scenario

Use in Surface treatment products, Use in/as Surface care and Polishes, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC31

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
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Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC31: Polishes and Wax Blends., Shoe polish spray, Leather furniture spray, Furniture polish, Floor polishes
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 5\%$
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 90 min 8 days per year
Indoor/Outdoor	Indoor
Room size	58 m ³
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.226 mg/m ³
Risk Characterization Ratio (RCR)	0.129
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC31: Polishes and Wax Blends., Shoe cream
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 5\%$
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 26 days per year
Indoor/Outdoor	Indoor
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - all relevant routes

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Exposure is considered negligible.

27. Short title of exposure scenario

(consumer use), Use in textile dyeing, bleaching, impregnation and related auxiliaries

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC34

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC34: Textile dyes, finishing and impregnating products: including bleaches and other processing aids, Leather furniture spray

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: $\geq 0\%$ - $\leq 5\%$
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 240 min 1 days per year
Indoor/Outdoor	Indoor
Room size	58 m ³

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Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Assessment method	ConsExpo v4.1, Default database: cleaning and washing/floor, carpet and furniture products/furniture leather spray
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.226 mg/m ³
Risk Characterization Ratio (RCR)	0.129
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC34: Textile dyes, finishing and impregnating products: including bleaches and other processing aids, Detergent powders
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 10 min 365 days per year
Indoor/Outdoor	Indoor
Room size	58 m ³
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Assessment method	ConsExpo v4.1, Default values: Cleaning and washing/laundry products/detergent powder
	Consumer- inhalative, long-term - local und systemic
	The calculated exposure value is negligibly low.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

28. Short title of exposure scenario

Use in Cleaning Agents, Use in/as Laundry agents, (consumer use)

SU21; ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b; PC35

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Wide dispersive indoor use of processing aids in open systems As no environmental hazard was identified no

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	environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8d: Wide dispersive outdoor use of processing aids in open systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9a: Wide dispersive indoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC9b: Wide dispersive outdoor use of substances in closed systems As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC10b: Wide dispersive outdoor use of long-life articles

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	and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	ERC11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses PC35: Washing and Cleaning Products (including solvent based products), Bathroom cleaning (liquid), Carpet spray spot removers, Carpet cleaning (liquids), Oven cleaners, Drain openers

Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Duration and Frequency of activity	Exposure duration: 100 min 10 days per year
Indoor/Outdoor	Indoor
Room size	58 m3
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Assessment method	ConsExpo v4.1
	Consumer- inhalative, short-term - local und systemic
Exposure estimate	0.0003 mg/m ³
Risk Characterization Ratio (RCR)	0.0002
	The calculated exposure value is negligibly low.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario

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Use descriptors covered	SU21: Consumer uses PC35: Washing and Cleaning Products (including solvent based products), Detergent liquids, Detergent powders, Hand dishwashing liquids, Machine dishwashing products, Machine Rinse Aid, Liquid cleaners, Spray cleaners, Wet tissues, Oven cleaners, Toilet cleaners (bleach), Toilet cleaners (acid), Toilet rim cleaners (liquid), Toilet rim cleaners (solid), Bathroom cleaning (spray)
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 5 %
Physical state	liquid
Physical state	Solid
Duration and Frequency of activity	Continuous exposure
Indoor/Outdoor	Indoor
Room size	58 m ³
Indoor/Outdoor	Outdoor
Exposure estimate and reference to its source	
Assessment method	ConsExpo v4.1
	Consumer- oral, long-term - local und systemic
Exposure estimate	0.0016 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	ConsExpo v4.1
	Consumer- inhalative, long-term - local und systemic
Exposure estimate	0.0018 mg/m ³
Risk Characterization Ratio (RCR)	0.001
	Given values represent the highest calculated exposure as a worst case assumption
Assessment method	Qualitative assessment
	Consumer - dermal
	Dermal exposure is considered to be not relevant.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

29. Short title of exposure scenario

Articles containing the substance

AC1, AC2, AC3, AC4, AC5, AC7, AC8, AC6, AC10, AC11, AC13, AC31, AC32, AC34, AC35, AC36, AC38

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	SU21: Consumer uses AC1: Vehicles AC2: Machinery, mechanical appliances, electrical/electronic articles AC3: Electrical batteries and accumulators AC4: Stone, plaster, cement, glass and ceramic articles AC5: Fabrics, textiles and apparel AC6: Leather articles AC7: Metal articles AC8: Paper articles AC10: Rubber articles AC11: Wood articles AC13: Plastic

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	articles AC31: Scented clothes AC32: Scented eraser AC34: Scented toys AC35: Scented paper articles AC36: Scented CD AC38: Packaging material for metal parts, releasing grease/corrosion inhibitors covered by exposure assessment of product categories
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30. Short title of exposure scenario

Use as an intermediate, (use in industrial settings), (handling as solid)

SU3; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
PROC1	
Assessment method	ECETOC TRA v2.0 Worker; modified version Worker - inhalative, long-term - local und systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.003
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value

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	corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC2, PROC15	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
PROC3	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.286
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facili-ties PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness

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Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 90 %
Use suitable eye protection.	
In case no suitable local exhaust ventilation is present:, Wear a suitable respiratory protection with adequate effectiveness .	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	ECETOC TRA v2.0 Worker; modified version
	Worker - inhalative, long-term - local und systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.143
	The exposure estimate represents the 90th percentile of the exposure distribution., The short-term exposure value corresponds to the long-term value multiplied by a factor of 2., The short-term exposure value represents the 95th percentile of the exposure distribution.
Assessment method	Qualitative assessment
	Worker - dermal
	Dermal exposure is considered to be not relevant.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

31. Short title of exposure scenario

Use as an intermediate, (use in industrial settings), (handling as solid in solution)

SU3; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. PROC2: Use in closed, continuous process with occasional controlled exposure. PROC3: Use in closed batch process (synthesis or formulation). PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	trisodium nitrilotriacetate Content: >= 0 % - <= 55 %
Physical state	Liquid, low fugacity
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 220 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide basic employee training to prevent/minimize exposures.	
Use suitable eye protection.	
Regular inspection and maintenance of equipment and machines.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Worker - all relevant routes
	Exposure is considered negligible.
Additional good practice advice	
Keep substance away from direct sunlight. Store substance in dry places. Segregate substance from incompatible materials. When not in use, keep containers tightly closed.	
Store substance in cool places. Store substance in well ventilated places. Segregate substance from foods. Put lids on containers immediately after use.	
