

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

POTASSIUM SILICATE 40 BE / DR 250 KG

Version 3.0

Print Date 03.01.2013

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Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name : POTASSIUM SILICATE 40 BE / DR 250 KG
Substance name : Silicic acid, potassium salt

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Nordic A/S
Borupvang 5 B
DK 2750 Ballerup
Telephone : +45 43 29 28 00
Telefax : +45 43 29 27 00
E-mail address : SDS.DK@brenntag-nordic.com
Responsible/issuing person : Environment & Quality

1.4. Emergency telephone number

Emergency telephone number : In case of personal injury call:
Denmark: 82 12 12 12 Giftlinien, Bispebjerg Hospital
Finland: Poison Information Centre: (09) 471 977 (direct) or (09) 47 11 (exchange), open 24h/day
Norway: 22 59 13 00 Giftinformasjonen (døgnåpent)
Sweden: +46-8-331231 Giftinformationscentralen (24 hour service)
Outside these countries: Please call your local emergency services

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to EU Directives 67/548/EEC or 1999/45/EC

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

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Hazard symbol / Category of danger	Risk phrases
Irritant (Xi)	R36/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

- Human Health : See section 11 for toxicological information.
- Physical and chemical hazards : See section 9 for physicochemical information.
- Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to EC Directives 67/548/EEC or 1999/45/EC

Hazard symbols:



Irritant

- | | | | |
|-------------|---|---------------|--|
| R-phrase(s) | : | R41
R38 | Risk of serious damage to eyes.
Irritating to skin. |
| S-phrase(s) | : | S24/25
S26 | Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | | S28 | After contact with skin, wash immediately with plenty of water. |
| | | S37/39 | Wear suitable gloves and eye/face protection. |
| | | S46 | If swallowed, seek medical advice immediately and show this container or label. |
| | | S64 | If swallowed, rinse mouth with water (only if the person is conscious). |

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.
Irritating to eyes, respiratory system and skin.
Harmful effects to aquatic organisms due to pH-shift.

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Section 3: Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
Silicic acid, potassium salt				
CAS-No. : 1312-76-1				Irritant; Xi;
EC-No. : 215-199-1	>= 30 - <= 50			R36/37/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

- If inhaled : Move to fresh air. If symptoms call a physician.
- In case of skin contact : Rinse with water. Remove contaminated clothing and shoes. Obtain medical attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Obtain medical attention.
- If swallowed : Rinse mouth. Drink water as a precaution. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : See Section 11 for more detailed information on health effects and symptoms.
- Effects : See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
No further information available.

Section 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing : Use extinguishing measures that are appropriate to local

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media circumstances and the surrounding environment.
 Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment. Choose protective equipment according to size of fire.
 Further information : Use water spray to cool unopened containers. Not combustible.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil. In case of large spillage contact the local authority.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Stop the leakage if it can be done without danger. Use personal protective equipment. Soak up with inert absorbent material. Shovel into suitable container for disposal. Clean-up methods - small spillage: Neutralise with acid. See also section 13: Disposal Considerations.

6.4. Reference to other sections

For personal protection see section 8.

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Do not inhale aerosol. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Smoking, eating and drinking should be prohibited in the application area. Contaminated work clothing should not be allowed out of the workplace.

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Wash hands before breaks and at the end of workday.
Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep away from food, drink and animal feedingstuffs. Keep areas and containers : container tightly closed. Keep from freezing

7.3. Specific end use(s)

Specific use(s) : No information available.

Section 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation.

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

Exposure may primarily be reduced by choice of working method and technical measures.

Personal protective equipment*Respiratory protection*

Advice : Suitable respiratory protective device
Recommended Filter type:P
Self-contained breathing apparatus can be necessary.

Hand protection

Advice : Choose right chemical protection as:
PVC gloves
Neoprene gloves
vinyl

Eye protection

Advice : Safety glasses

Skin and body protection

Advice : Boots
Apron

Environmental exposure controls

General advice : The product should not be allowed to enter drains, water courses or the soil.
In case of large spillage contact the local authority.

POTASSIUM SILICATE 40 BE / DR 250 KG**Section 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Form	: liquid
Colour	: colourless
Odour	: odourless
Odour Threshold	: no data available
pH	: 11,5
Melting point/range	: -3 °C
Boiling point/boiling range	: 100 °C
Flash point	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapor density	: no data available
Density	: 1,38 - 1,39 g/cm ³ (20 °C)
Water solubility	: miscible
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Explosivity	: no data available
Oxidizing properties	: no data available

9.2. Other information

No further information available.

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Section 10: Stability and reactivity

10.1. Reactivity

Advice : Stable under recommended storage conditions.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Conditions to avoid : This information is not available.

10.5. Incompatible materials

Materials to avoid : Strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products : Decomposes by reaction with strong acids. Silicon dioxide fume products

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

May cause irritation of the stomach and intestines., Nausea

Inhalation

irritant effects

Irritation

Skin

Result : Prolonged skin contact may cause skin irritation.

Eyes

Result : Severe eye irritation

CMR effects

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No evidence of carcinogenic effects.

Reproductive toxicity

No evidence of reproductive effects.

Section 12: Ecological information**12.1. Toxicity****Acute toxicity****Fish**

This information is not available.

12.2. Persistence and degradability**Persistence and degradability****Biodegradability**

Result : Not biodegradable.

12.3. Bioaccumulative potential**Bioaccumulation**

Result : Does not accumulate in organisms.

12.4. Mobility in soil**Mobility**

Result : The product is mobile in water environment.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

Result : This information is not available.

12.6. Other adverse effects

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Additional ecological information

Result : The product is mobile in water environment.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

Waste Key Number : X

Section 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

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Section 15: Regulatory information

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

Other regulations : Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the substance, are allowed to work with it.

15.2. Chemical Safety Assessment

no data available

Section 16: Other information

Full text of R-phrases referred to under sections 2 and 3.

R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text