

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

HYDROGEN PEROXIDE 35% ICELAND/ CAN 22 KG

Version 4.0

Print Date 29.08.2012

Revision Date 08.02.2012

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

Trade name : HYDROGEN PEROXIDE 35% ICELAND/ CAN 22 KG
Substance name : hydrogen peroxide solution
Index-No. : 008-003-00-9
CAS-No. : 7722-84-1
EC-No. : 231-765-0

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

2. Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Skin irritation	Category 2	---	H315
Skin irritation	Category 2	---	H315
Serious eye damage	Category 1	---	H318
Serious eye damage	Category 1	---	H318
Specific target organ toxicity - single exposure	Category 3	---	H335
Specific target organ toxicity - single exposure	Category 3	---	H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Irritant (Xi)	R41, R37/38

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 Regulation (EC) No 1272/2008**

Hazard symbols :



Signal word : Danger

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Hazard statements	:	H315 H318 H335	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.
Precautionary statements			
Prevention	:	P280	Wear protective gloves/ eye protection/ face protection.
Response	:	P302 + P352 P304 + P340 P305 + P351 + P338 P308 P310	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

- hydrogen peroxide solution

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients

3.1. Substances

Chemical nature : Aqueous solution

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
hydrogen peroxide solution				

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Index-No.	: 008-003-00-9	Ox. Liq.1	H271	R 5
CAS-No.	: 7722-84-1	Acute Tox.4	H332	O; R 8
EC-No.	: 231-765-0	Acute Tox.4	H302	C; R35
	35	Skin Corr.1A	H314	Xn; R20/22
		STOT SE3	H335	

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

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4. First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately.
If inhaled	: If unconscious place in recovery position and seek medical advice. Remove to fresh air.
In case of skin contact	: Wash off immediately with plenty of water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. If a person vomits when lying on his back, place him in the recovery position.

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	: No information available.
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5. Firefighting measures

5.1. Extinguishing media

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- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.
- Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : The product is not flammable. Oxygen released on exothermic decomposition may support combustion in case of surrounding fire. Heating will cause a pressure rise - with risk of bursting

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
- Further information : Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Use personal protective equipment. Keep away unprotected persons. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. For personal protection see section 8.

6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Flush away residuals with plenty of water.
- Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

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See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling : Do not keep the container sealed. Provide sufficient air exchange and/or exhaust in work rooms. Handle in accordance with good industrial hygiene and safety practice. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Avoid contact with the skin and the eyes. Never return unused material to storage receptacle.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Suitable materials for containers: Stainless steel; glass; Plastic container of HDPE; Unsuitable materials for containers: Brass; Copper; Iron

Advice on protection against fire and explosion : Not combustible. Oxidizing agent, may cause spontaneous ignition of combustible materials. In concentrations between 20 - 40 %: Liquid with minor oxidizing effect. With catalysts or at elevated temperatures hydrogen peroxide decomposes to water and oxygen.

Further information on storage conditions : Store in cool place. Keep in a well-ventilated place. Protect against light. Protect from contamination.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Keep away from combustible material. Materials to avoid: Reducing agents

7.3. Specific end uses

Specific use(s) : No information available.

8. Exposure controls/personal protection

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8.1. Control parameters**Other Occupational Exposure Limit Values**

(Additional) : Contains no substances with occupational exposure limit values.
Information

Component: hydrogen peroxide solution**CAS-No.
7722-84-1****Other Occupational Exposure Limit Values**

GV (DK), Threshold Limit Values (TLV):
1 ppm, 1,4 mg/m³

8.2. Exposure controls**Engineering measures**

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment*Respiratory protection*

Advice : Use respirator with appropriate filter if vapours or aerosol are released.
Recommended Filter type:B

Hand protection

Advice : Wear suitable gloves.
The following materials are suitable:
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.

Material : butyl-rubber
Break through time : >= 8 h
Glove thickness : 0,5 mm

Material : natural rubber
Break through time : >= 8 h
Glove thickness : 0,5 mm

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Material : polychloroprene
Break through time : >= 8 h
Glove thickness : 0,5 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : Currently we do not have any information from our supplier about this.

pH : > 2,5 (20 °C)

Freezing point : ca. -33 °C

Boiling point : ca. 108 °C

Flash point : not applicable
not applicable

Evaporation rate : Currently we do not have any information from our supplier about this.

Flammability (solid, gas) : Currently we do not have any information from our

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	supplier about this.
Upper explosion limit	: Currently we do not have any information from our supplier about this.
Lower explosion limit	: Currently we do not have any information from our supplier about this.
Vapour pressure	: Currently we do not have any information from our supplier about this.
Relative vapour density	: Currently we do not have any information from our supplier about this.
Density	: ca. 1,15 g/cm ³ (20 °C)
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: log Kow -1,57 (25 °C) log Pow, calculated on the pure substance
Ignition temperature	: Currently we do not have any information from our supplier about this.
Thermal decomposition	: Currently we do not have any information from our supplier about this.
Viscosity, dynamic	: Currently we do not have any information from our supplier about this.
Explosivity	: Product is not explosive.
Oxidizing properties	: Currently we do not have any information from our supplier about this.

9.2. Other information

No further information available.

10. Stability and reactivity**10.1. Reactivity**

Advice : Reacts with copper, aluminum, zinc and their alloys.

10.2. Chemical stability

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Advice : Stabilising additive(s)

10.3. Possibility of hazardous reactions

Hazardous reactions : Oxygen released on exothermic decomposition may support combustion in case of surrounding fire.

10.4. Conditions to avoid

Conditions to avoid : Keep away from direct sunlight.

10.5. Incompatible materials

Materials to avoid : Reducing agents, Metals, alkalis, Organic materials, Impurities, Combustible materials

10.6. Hazardous decomposition products

Hazardous decomposition products : Oxygen

11. Toxicological information**11.1. Information on toxicological effects****Acute toxicity****Oral**Acute toxicity estimate : 3408,57 mg/kg) (Calculation method)
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Acute toxicity estimate : 3408,57 mg/kg) (Calculation method)

InhalationStrong irritating.
Inhalation of aerosols/vapours may during a couple of hours cause liquid in the lungs (edema).

Acute toxicity estimate : 31,43 mg/l (Calculation method)

Acute toxicity estimate : 31,43 mg/l (Calculation method)

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Dermal

Currently we do not have any information from our supplier about this.

Irritation**Skin**

Skin contact may cause irritation. Prolonged and repeated exposure may cause pain and redness.

Eyes

Strong irritating.
Risk of serious damage to eyes.

Sensitisation

not sensitizing (guinea pig)

CMR effects**CMR Properties**

- Carcinogenicity : Currently we do not have any information from our supplier about this.
- Mutagenicity : Currently we do not have any information from our supplier about this.
- Teratogenicity : Currently we do not have any information from our supplier about this.
- Reproductive toxicity : Currently we do not have any information from our supplier about this.

Specific Target Organ Toxicity**Single exposure**

Currently we do not have any information from our supplier about this.

Repeated exposure

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Currently we do not have any information from our supplier about this.

Aspiration toxicity

Currently we do not have any information from our supplier about this.

Component: hydrogen peroxide solution**CAS-No.
7722-84-1****Acute toxicity****Oral**

LD50 : 1193 mg/kg (rat)

LD50 : 1193 mg/kg (rat)

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

LC50 : 16,4 mg/l (Pimephales promelas; 96 h)

LC50 : 35 mg/l (Leuciscus idus melanotus; 24 h)

Toxicity to daphnia and other aquatic invertebrates.

EC50 : 7,7 mg/l (Daphnia magna; 24 h)

algae

EC50 : 27,5 - 43 mg/l (scenedesmus quadricauda; 240 h)

Bacteria

EC10 : 11 mg/l (Pseudomonas putida; 16 h)

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

Result : The product can be degraded by abiotic (e.g. chemical or photolytic) processes.

Biodegradability

Result : Readily biodegradable.

12.3. Bioaccumulative potential**Bioaccumulation**

Result : Does not bioaccumulate.

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 substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
not applicable

12.6. Other adverse effects**Additional ecological information**

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Result : All numerical values for ecotoxicity effects are calculated on the pure substances.
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

13. Disposal considerations**13.1. Waste treatment methods**

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Dispose of in accordance with local regulations.

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.

14. Transport information**14.1. UN number**

2014

14.2. UN proper shipping name

ADR : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
RID : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IMDG : HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3. Transport hazard class(es)

ADR-Class : 5.1
(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 5.1, 8; OC1; 58; (E)

RID-Class : 5.1
(Labels; Classification Code; Hazard identification No) 5.1, 8; OC1; 58

IMDG-Class : 5.1
(Labels; EmS) 5.1, 8; F-H, S-Q

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14.4. Packaging group

ADR : II
RID : II
IMDG : II

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no
Labeling according to 5.2.1.8 RID : no
Labeling according to 5.2.1.6.3 IMDG : no
Classification as environmentally hazardous according to 2.9.3 IMDG : no
Classified as "P" according to 2.10 IMDG : no

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.

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical Safety Assessment**

Currently we do not have any information from our supplier about this.

16. Other information**Full text of R-phrases referred to under sections 2 and 3.**

R 5 Heating may cause an explosion.
R 8 Contact with combustible material may cause fire.
R20/22 Harmful by inhalation and if swallowed.
R35 Causes severe burns.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.

Full text of H-Statements referred to under sections 2 and 3.

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H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Further information

Other information : Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. 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

|| Indicates updated section.