

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

## SODIUM SILICATE 36% / DR 250 KG

Version 2.0

Print Date 29.08.2012

Revision Date 14.09.2011

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

#### 1.1. Product identifier

Trade name : SODIUM SILICATE 36% / DR 250 KG

#### 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.

Recommended restrictions on use : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

#### 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 EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases

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Irritant (Xi)

R37/38, R41

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.  
See section 12 for environmental information.
- Potential environmental effects : See section 12 for environmental information.  
No further information available.

**2.2. Label elements****Labelling according to EC Directives 67/548/EEC or 1999/45/EC**

Hazard symbols:



Irritant

- R-phrase(s) : R38 Irritating to skin.  
R41 Risk of serious damage to eyes.
- S-phrase(s) : S24/25 Avoid contact with skin and eyes.  
S26 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.  
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).  
S37/39 Wear suitable gloves and eye/face protection.

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**2.3. Other hazards**

For Results of PBT and vPvB assessment see section 12.5.  
Harmful effects to aquatic organisms due to pH-shift.

**3. Composition/information on ingredients****3.2. Mixtures**

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
<b>Silicic acid, sodium salt</b>				
CAS-No. : 1344-09-8	>= 35 - <= 40			Xi; R37/38-R41
EC-No. : 215-687-4				

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

**4. First aid measures****4.1. Description of first aid measures**

- If inhaled : Move to fresh air. Keep at rest. If symptoms call a physician.
- In case of skin contact : Wash off with soap and water. Remove contaminated clothing and shoes. If symptoms call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 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 : No further information available.
- Effects : No further information available.

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

Treatment : Treat symptomatically.  
No further information available.

**5. Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local 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. The product is not flammable.

**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.

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**6.4. Reference to other sections**

For personal protection see section 8.

**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, eyes and clothing. 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.  
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 areas and containers : Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Keep from freezing

**7.3. Specific end uses**

Specific use(s) : No information available.

**8. Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Engineering measures**

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 : If ventilation is insufficient, suitable respiratory protection must be

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provided

*Hand protection*

Advice : Protective gloves  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
Protective gloves complying with EN 374.  
Choose right chemical protection as:

Material : butyl-rubber

*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.

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

Form : liquid

Colour : colourless

Odour : odourless

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

pH : 11,2

Freezing point : Currently we do not have any Information from our supplier about this.

Boiling point : Currently we do not have any Information from our supplier about this.

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Flash point	:	Currently we do not have any Information from our supplier about this.
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 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	:	1,32 g/cm <sup>3</sup> (20 °C)
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	Currently we do not have any Information from our supplier about this.
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	:	50 - 120 mPa.s (20 °C)
Explosivity	:	Currently we do not have any Information from our supplier about this.
Oxidizing properties	:	Currently we do not have any Information from our supplier about this.

**9.2. Other information**

No further information available.

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

Advice : No information available.

**10.2. Chemical stability**Advice : No decomposition if stored and applied as directed.  
No further information available.**10.3. Possibility of hazardous reactions**

Hazardous reactions : No information available.

**10.4. Conditions to avoid**

Conditions to avoid : Keep from freezing Avoid temperatures above 60°C, direct sunlight and contact with sources of heat.

**10.5. Incompatible materials**

Materials to avoid : Strong acids, Galvanised metals, Aluminium, Light metals

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Silicon dioxide fume

**11. Toxicological information****11.1. Information on toxicological effects****Acute toxicity****Oral**

May cause irritation of the stomach and intestines., Nausea

**Inhalation**irritant effects  
(as aerosol)**Irritation****Eyes**



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Result : Irritating to eyes.  
Result : No evidence of carcinogenic effects.

**12. Ecological information****12.1. Toxicity****Acute toxicity****Toxicity to daphnia and other aquatic invertebrates.**

4857 mg/l (Daphnia magna (Water flea); 48 h)

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

Result : In a water solution with pH < 9 does the silicate in the product precipitate. The highest concentration of soluble silicates at this pH are 120 mg/l.

**12.3. Bioaccumulative potential****Bioaccumulation**

Result : Does not accumulate in organisms.

**12.4. Mobility in soil****Distribution among environmental compartments**

: The product is water soluble.

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

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**Results of PBT and vPvB assessment**

Result : This information is not available.

**12.6. Other adverse effects****Additional ecological information**Result : The product is mobile in water environment.  
Harmful effects to aquatic organisms due to pH-shift.**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 04.32

**14. Transport information****14.1. UN number****14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packaging group**

Not applicable.

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**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.

**Further information for transport**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

**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**

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.**

R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.

|| Indicates updated section.

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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