

Material Safety Data Sheet

126.320.1 Sodium tetraborate

Sodium tetraborate

1. Identification of the product and the company

Identification of the product

- Type of product : Pure product.

- Use of product : Several industrial applications (Paint remover , Solvent degreasing , ...)

Company identification : See footer of Material Safety Data Sheet.

Emergency phone number : +32(0)70/245245 (Anti Poison Centre Brussels – Belgium)

2. Hazard identification

* Toxic for reproduction (cat.2, T) :	R60 - May impair fertility. R61 - May cause harm to the unborn child.
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3. Composition and information on ingredients

Name component(s)	Weight %	CAS nr	EINECS nr	EC Annex nr	Symbol(s)	R-phrase(s)
* Borax decahydrate	> 99.9 %	1303-96-4	215-540-4	005-011-01-1 / -----	T	60-61

Limit value (Belgium) : 2 mg/m³ (2009)

Short time value (Belgium) : 6 mg/m³ (2009)

* The full text of the R-phrases is in chapter 16.

4. First aid measures

General	In case of doubt or persistent symptoms, call a physician. Never give anything by mouth to an unconscious person.
First Aid Measures:	
*Inhalation:	Remove victim into fresh air. Allow the affected person to rest. If not breathing, give artificial respiration. Consult a doctor.
*Skin contact:	Remove contaminated clothing. Rinse skin immediately with mild soap and plenty of water. (shower if necessary). Consult doctor if irritation develops.
*Eye contact:	Rinse immediately thoroughly and long (at least 15 min.) with plenty of water. Remove contact lenses. Consult eye doctor. Do not use a neutralisation agent.
*Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. Give victim plenty of water to drink. Seek medical advice.

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5. Fire-fighting measures

Extinguishing Media

- Suitable :	Incombustible product. In case of nearby fire, use of all extinguishing media allowed.
Special Procedures :	Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.
* Special Exposure Hazards :	Overheating may liberate irritating vapours.
Special Protective Equipment for firefighters	Use self-contained breathing apparatus when in close proximity to fire.

6. Accidental release measures

* Personal Precautions :	Evacuate all personnel immediately and ventilate area. Avoid breathing product and contact with eyes. Wear recommended personal protective equipment. (See chapter 8).
* Environmental Precautions :	Prevent entry of product in public water, sewers or soil. Notify authorities if product enters sewers or public waters.
* Methods for Cleaning Up :	Collect the spillage in closable, suitable disposal containers. For the removal of the waste product, see chapter 13. Residue is to be washed down with plenty of water.

7. Handling and storage

* Handling :	Ventilate area. Avoid dust creation. Avoid breathing product and contact with eyes. Wear recommended personal protective equipment. (See chapter 8)
* Storage :	Keep only in the original, safely locked container in a cool, well ventilated and dry place. Keep away from : Strong reducing agents .

8. Measures exposure control/Personal protection

Engineering Measures :	Ventilate area.
Industrial Hygiene :	When using, do not eat, drink or smoke.
* Occupational Exposure Limits :	See chapter 3.

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8. Measures exposure control/Personal protection (continued)

Personal Protection Equipment	
* - Respiratory Protection :	Ventilation , Local exhaust , Dust respirator
- Hand Protection :	Gloves
- Eye Protection :	Chemical goggles
- Skin and Body Protection :	Suitable protective clothing

9. Physical and chemical properties

* Physical State (20°C) :	Crystalline solid
Form/Colour :	White
Odour :	Odourless
pH value :	9,2 (1% sol. , 20°C)
* Boiling Point/Range (1013 hPa) :	1575 °C
* Congealing/Melting point :	62 °C
Flash point :	Not applicable
Explosion limits in air :	Not applicable
* Density (20°C) :	1,71 - 1,73 kg/l
* Solubility in water (20°C) :	4,7 %

10. Stability and reactivity

Stability : Stable at normal circumstances.

* Conditions to avoid : Heat .

* Materials to avoid : Strong reducing agents .

* Hazardous Decomposition Products : Overheating may liberate irritating vapours.

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11. Toxicological information

Acute toxicity	
* - Inhalation :	May cause irritation of respiratory tract. Symptoms include: Sore throat , Cough , Shortness of breath.
- Skin contact :	No irritant effects expected. • Borax decahydrate : LD50 (Rabbit, dermal) : > 2000 mg/kg
- Eye contact :	May be irritating to eyes. Symptoms include: Redness , Pain
* - Ingestion :	Symptoms include: Burning feeling , Nausea , Abdominal cramps , Diarrhea , Blue skin . * • Borax decahydrate : LD50 (Rat, oral) : > 2500 mg/kg
* Other toxicological information :	Information on the webaddress http://ecb.jrc.it/ESIS (see IUCLID Data Sheets).
* Teratogenicity :	May impair fertility. (Terat. cat. 2). May cause harm to the unborn child. (Terat. cat. 2).

12. Ecological information

Mobility :	Limited solubility in water.
* Persistence and degradability :	No data available.
* Bioaccumulation :	Bioaccumulation not expected
* Ecotoxicity :	• Borax decahydrate : LC50 (Fish, 96 h) : 1900 mg/l (Pimephales promelas) • Borax decahydrate : EC50 (Daphnia magna, 48 h) : 141 mg/l
* Other ecological information :	Information on the webaddress http://ecb.jrc.it/ESIS (see IUCLID Data Sheets).

13. Disposal considerations

Waste from residues/Unused products :	The product has to be destroyed according to national or local legislation, by a company specialised in handling hazardous waste products. Removal contaminated packaging : Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully.
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13. Disposal considerations (continued)

* European list of waste products :	European waste product code: ' XX XX XX '. This code is assigned on the basis of the most current applications and cannot be representative for pollutions which are arisen at the effective use of the product. The producer of the waste has to evaluate its process himself and has to grant the appropriate waste coding. See directive 2001/118/EC.
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14. Transport information

Land (Road/Railroad, ADR/RID) :	Product not mentioned in list of dangerous goods for road transport.
Sea Transport (IMDG) :	Product not mentioned in list of dangerous goods for sea transport.

15. Regulatory information

- * Name dangerous component(s) : Borax decahydrate .
- * EC Number : 215-540-4
- * Symbol(s) : Toxic (T).



* R-Phrases :	R60 - May impair fertility. R61 - May cause harm to the unborn child.
* S-Phrases :	S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible). S53 - Avoid exposure - obtain special instructions before use.

16. Other information

- * This safety data sheet has been drawn up in accordance with the EC Regulation n° 1907/2006. This safety data sheet is exclusively made for industrial/professional use. Sources of used key data : The information contained herein is based on the present state of our knowledge (Producer(s) ,...).
- * Changes : General revision .
- * R-phrases : R60 - May impair fertility. R61 - May cause harm to the unborn child.
- * means: Has changed compared to previous revision.

Revision 18/02/2011