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MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM METABORATE LR (TETRAHYDRATE)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product identifiers

Product name: Sodium metaborate tetrahydrate
 CAS-No. : 10555-76-7

Product Coad: S0195500500

Formula : BNaO₂ · 4H₂O
 Molecular Weight : 137,86 g/mol

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

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

Irritating to eyes, respiratory system and skin.

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard none

Statements

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrases(s)

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

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Concentration
Sodium metaborate tetrahydrate	
CAS-No. 10555-76-7	-
EC-No. 231-891-6	

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed
 no data available

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5. FIREFIGHTING MEASURES

Extinguishing media
 Suitable extinguishing media
 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
 Special hazards arising from the substance or mixture
 Borane/boron oxides, Sodium oxides
 Advice for firefighters
 Wear self contained breathing apparatus for fire fighting if necessary.
 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
 Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
 Environmental precautions Do not let product enter drains.
 Methods and materials for containment and cleaning up
 Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling
 Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
 Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Specific end uses no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
 Components with workplace control parameters
 Exposure controls
 Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
 Personal protective equipment
 Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
 Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
 Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
 Body Protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.
 Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Appearance Form: crystalline
 Colour: white
- Odour no data available
- Odour Threshold no data available
- pH no data available
- Melting point/freezing point no data available
- Initial boiling point and no data available
 boiling range
- Flash point not applicable
- Evaporation rate no data available

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i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive limits no data available
 k) Vapour pressure no data available
 l) Vapour density no data available
 m) Relative density no data available
 n) Water solubility no data available
 o) Partition coefficient: n- no data available
 octanol/water
 p) Autoignition temperature no data available
 q) Decomposition temperature no data available
 r) Viscosity no data available
 s) Explosive properties no data available
 t) Oxidizing properties no data available
 Other safety information
 no data available

10. STABILITY AND REACTIVITY

Reactivity
 no data available
 Chemical stability
 no data available
 Possibility of hazardous reactions
 no data available
 Conditions to avoid
 no data available
 Incompatible materials
 Strong oxidizing agents
 Hazardous decomposition products
 Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
 Acute toxicity no data available
 Skin corrosion/irritation no data available
 Serious eye damage/eye irritation no data available
 Respiratory or skin sensitization no data available
 Germ cell mutagenicity no data available
 Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 Reproductive toxicity
 no data available
 Specific target organ toxicity - single exposure
 Inhalation - May cause respiratory irritation.
 Specific target organ toxicity - repeated exposure
 no data available
 Aspiration hazard
 no data available
 Potential health effects
 Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
 Ingestion May be harmful if swallowed.
 Skin May be harmful if absorbed through skin. Causes skin irritation.
 Eyes Causes serious eye irritation.
 Signs and Symptoms of Exposure
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
 Additional Information
 RTECS: Not available

MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM METABORATE LR (TETRAHYDRATE)****12. ECOLOGICAL INFORMATION**

Toxicity no data available
Persistence and degradability no data available
Bioaccumulative potential no data available
Mobility in soil no data available
Results of PBT and vPvB assessment no data available
Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Not Regulated

15 - REGULATORY INFORMATION

N/A

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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