

SAFETY DATA SHEET

SODIUM PERBORATE MONOHYDRATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	110-15-6
EC number:	203-740-4
1.2 SYNONYMS:	- Sodium tetraoxidoborate monohydrate - Monohydrated sodium perborate - Sodium perborate (1 hydrate) - Sodium perborate monohydrate - Sodium borate perhydrate

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 3) Acute Toxicity (Oral Category 4) Eye damage/irritation (Category 1) Reproductive Toxicity: (Category 1) Specific target organ toxicity (single exposure) (Category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H272: May intensify fire; oxidizer H302: Harmful if swallowed. H318: Causes severe eye damage H335: May cause respiratory irritation H360: May damage fertility or the unborn child

Precautionary Statements:	P101: If medical advice is needed, have product container or label at hand. P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing dust/fumes/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312: IF SWALLOWED: Call a poison center or doctor if you feel unwell. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention. P405: Store locked up. P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container to an approved waste disposal plant. P273: Avoid release to the environment. P391: Collect spillage.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, or discomfort.

Ingestion:	may cause gastrointestinal irritation, nausea, vomiting, abdominal pain,
Skin Contact:	may cause irritation, redness, dryness
Eye contact:	can cause severe irritation, redness, pain, and potential eye damage.
Chronic Exposure:	may lead to long-term irritation of the respiratory system, skin, or eyes, and potentially cause sensitization or allergic reactions with repeated contact..
Aggravation of pre-existing conditions:	may aggravate pre-existing skin, eye, or respiratory conditions, such as dermatitis, conjunctivitis, or asthma, due to its irritating properties.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 10332-33-9 SODIUM PERBORATE MONOHYDRATE (95%) 10486-00-7 SODIUM PERBORATE TETRAHYDRATE (3%) 7732-18-5 WATER (2%)
Identification number(s):	EC number: 234-390-0 SODIUM PERBORATE MONOHYDRATE 239-172-9 SODIUM PERBORATE TETRAHYDRATE 231-791-2 WATER

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

After skin contact:	Remove contaminated clothing. Wash with soap and water for atleast 15 minutes. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water Immediately after ingestion. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute symptoms include respiratory irritation, skin and eye irritation, and, in severe cases, damage to the eyes, with potential delayed effects such as sensitization or allergic reactions upon repeated exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device . Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical

	damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	White crystalline powder
Colour:	White
Odour:	Odourless
pH-value:	9.5
Melting point/Melting range:	No data available
Boiling point/Boiling range:	No data available
Flammability (solid, gaseous):	Non-Flammable
Ignition temperature:	No data available
Decomposition temperature:	170°C
Self-igniting:	Not applicable
Flash point:	Not applicable
Danger of explosion:	Not applicable
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not applicable
Density at 20 °C:	1.8 g/cm ³ .
Relative density:	1.8
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with- water at 20 °C:	Moderately soluble
Partition coefficient:(n- octanol/water)	No data available
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen
10.4 Conditions to avoid	Avoid reactions with alkalis.

10.5 Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
10.6 Hazardous decomposition products	No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat) : 1200 mg/kg LD50 (Dermal, Rabbit): no data available LC50 (Inhalation, Rat): no data available.
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	Causes severe irritation and burns of the eyes.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	May damage fertility or the unborn child
Specific target organ toxicity - single exposure:	May cause respiratory irritation
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Biodegradable in aerobic environments.

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	No data available
12.2 Persistence and degradability:	Biodegradable in aerobic environments.
12.3 Bioaccumulative potential:	Not bioaccumulative.

12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	mild detergents, surfactants, and aqueous solutions that are compatible with oxidizing agents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3377
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	SODIUM PERBORATE MONOHYDRATE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	5.1
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	No data available
14.6 Special precautions for user:	Handle responsibly.

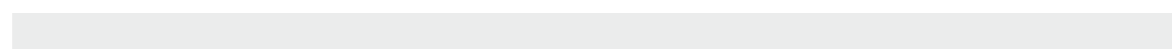
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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