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 intensity 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.
ECTI	P261: Avoid breathing
LOID.	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.
VALLE ALLENIA	P403 + P233: Store in a well-
YOUR CHEMIC	ventilated place. Keep container
I O O II O II L IVI I C	tightly closed.
	P501: Dispose of contents/container
	to an approved waste disposal
	plant.
	P273: Avoid release to the
	environment.
2.7.046 - 11.6	P391: Collect spillage.
2.3 Other hazards: Inhalation:	popular receivate w / imitation
innaiation:	may cause respiratory irritation,
	coughing, or discomfort.



Ingestion: Skin Contact:	may cause gastrointestinal irritation, nausea, vomiting, abdominal pain, 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: After eye contact:	Remove contaminated clothing. Wash with soap and water for atleast 15 minutes. Consult a physician. 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	Contact with combustibles such as
the substance or mixture:	wood, paper, oil or finely divided
	metal may produce spontaneous
	combustion or violent
	decomposition.
5.3 Advice for firefighters:	Wear fully protective suit, safety
Y II II K I; H F WIII;	glasses and respiratory device .
1 0 0 II O II E III I O	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,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
ECTN	Evacuate personnel to safe areas.
ESID.	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	Take up spill into absorbent
containment and cleaning up:	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.
VOUD CHEMIC	Electrostatic discharge protection.
IY U U K G H E WI G	Minimize dust generation and
	accumulation.
	Avoid ingestion and inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	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	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
FOTB	Containers which are opened must
	be carefully resealed and kept
EOID:	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection



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-	Moderately soluble
·water at 20 °C:	
Partition coefficient:(n-	No data available
octanol/water)	
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	Contact with incompatible
ITUUN GREWIIG	substances can cause
	decomposition or other chemical
	reactions.
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	In contact with active metals (alkali
reactions	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	No data available
products	4000

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	AI PARTNER
Biodegradability:	Biodegradable in aerobic environments.

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	No data available
12.2 Persistence and	Biodegradable in aerobic
degradability:	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	14/h
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,	3377
IMDG, IATA:	
14.2 UN proper shipping name ·	SODIUM PERBORATE
ADR, ADN, IMDG, IATA:	MONOHYDRATE
14.3 Transport hazard class(es) ·	5.1
ADR, ADN, IMDG, IATA:	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	No data available
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is not classified in
regulations/legislation specific	listed substance.
for the substance or mixture	IAL PARINER
Directive 2012/18/EU	
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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