

Date of issue: 08/10/2020

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Sodium peroxoborate,4-hydrate SDS No. : 7239E-1 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp 2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture **HEALTH HAZARDS** Serious eye damage/eye irritation: Category 1 Reproductive toxicity: Category 2 **ENVIRONMENT HAZARDS** Hazardous to the aquatic environment (Acute): Category 2 Hazardous to the aquatic environment (Long-term): Category 2 (Note) GHS classification without description: Not classified/Classification not possible Label elements Signal word: Danger HAZARD STATEMENT Causes serious eye damage Suspected of damaging fertility or the unborn child Toxic to aquatic life Toxic to aquatic life with long lasting effects PRECAUTIONARY STATEMENT Prevention Avoid release to the environment. Wear eye protection/face protection. Use personal protective equipment as required. Response Collect spillage. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Disposal Dispose of contents/container in accordance with local/national regulation.



3.

. Composition/information on ingredients	
Mixture/Substance selection:	
Substance	
Ingredient name:Sodium peroxoborate,4-hydrate	
Content (%):95(min)	
Chemical formula:NaBO3•4H2O	
Chemicals No, Japan:1–826	
CAS No.:10486-00-7	
MW:153.86	
Note : The figures shown above are not the specifications of the product.	

#### 4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Get medical attention/advice.

#### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

#### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

# IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

#### 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

# Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.



6. Accidental release measures
Personnel precautions, protective equipment and emergency procedures
Ventilate area until material pick up is complete.
Wear proper protective equipment.
Environmental precautions
Prevent spills from entering sewers, watercourses or low areas.
Avoid raising dust.
Methods and materials for containment and cleaning up
Sweep up, place in a bag and hold for waste disposal.
Preventive measures for secondary accident
Collect spillage.

### 7. Handling and storage Precautions for safe handling

Preventive measures

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

When using do not eat, drink or smoke.

# Any incompatibilities

See "10.Stability and Reactivity"

# Storage

Conditions for safe storage Keep container tightly closed. Store in a cool, dry place. Do not store in direct sunlight. Container and packaging materials for safe handling Glass Polyethylene

# 8. Exposure controls/personal protection Control parameters Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eye wash station should be available. Washing facilities should be available. Individual protection measures Respiratory protection. Hand protection Wear protective gloves. Eye protection

Wear eye/face protection.



9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Crystals or crystalline powder Color: White Odor: Odourless Melting point/Freezing point: (decomposes)ca. 60 through 65.5°C Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH: 9.5-10.5 (10g/L,25°C) Kinematic viscosity data is not available. Solubility: Solubility in water: 2.3g/100ml (20°C) n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Decomposes above  $60^{\circ}$  C. This produces toxic fumes including sodium oxide. Decomposes on contact with water. This produces boric acid and hydrogen peroxide. The substance is a strong oxidant. It reacts with combustible and reducing materials. The solution in water is a weak base. (ICSC 1046)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Reducing agents, Water, Combustible materials

Hazardous decomposition products

Sodium oxide, Boric acid, Hydrogen peroxide

11. Toxicological Information
Information on toxicological effects
Acute toxicity data is not available.
Irritant properties
Skin corrosion/irritation data is not available.
Serious eye damage/irritation
[GHS Cat. Japan, base data]
(Sodium peroxoborate,4-hydrate)
rabbit severe irritation (PATTY 5th, 2001)
Allergenic and sensitizing effects data is not available.



Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity

[GHS Cat. Japan, base data] (Sodium peroxoborate,4-hydrate) cat. 2; Birth Defects 3rd, 2000

## STOT

STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.

# Additional data

May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

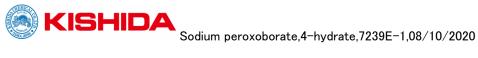
12. Ecological Information Ecotoxicity Aquatic toxicity Toxic to aquatic life Toxic to aquatic life with long lasting effects Hazardous to the aquatic environment (Acute) [GHS Cat. Japan, base data] (Sodium peroxoborate,4-hydrate) Crustacea (Ceriodaphnia reticulata) EC50=6.98mg/L/48hr (Aquire, 2010) Water solubility (Sodium peroxoborate,4-hydrate) 2.3 g/100 ml (20°C) (ICSC, 2004) Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential Bioaccumulative potential data is not available. Mobility in soil Mobility in soil data is not available. Other adverse effects Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment (- if this is not the intended use). Dispose of contents/container in accordance with local/national regulation.

# 14. Transport Information

UN No.: 3077 Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Class or division : 9 Packing group : III ERG GUIDE No.: 171 Special provisions No.: 274; 331; 335; 375



	e (International Maritime Dangerous Goods Regulations) No.: 3077
	oper Shipping Name :
	IVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
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-	erous Goods Regulations
	No.: 3077
Pro	oper Shipping Name :
EN	IVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Cla	ass or division : 9
Ha	zard labels : Miscellaneous & Environmentally hazardous
Pa	cking group : III
Sp	ecial provisions No.: A97; A158; A179; A197
Environmer	ntal hazards
MARPO	L Annex III – Prevention of pollution by harmful substances
Ma	arine pollutants (yes/no) : yes
	L Annex V – Prevention of pollution by garbage discharge
	zardous to the aquatic environment - long-term hazard: cat.1, 2
	dium peroxoborate,4-hydrate

#### 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture **US Federal Regulations** Chemicals listed in TSCA Inventory Sodium peroxoborate,4-hydrate Other regulatory information Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

# 16. Other information

GHS classification and labelling
Eye Dam. 1: H318 Causes serious eye damage
Repr. 2: H361 Suspected of damaging fertility or the unborn child
Aquatic Acute 2: H401 Toxic to aquatic life
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects
Reference Book
Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18)
IATA Dangerous Goods Regulations (61th Edition) 2020
Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2020 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/ENG/Classification/index.php
Supplier's data/information
General Disclaimer
This data sheet was created based on the information we currently have and may be revised

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your



safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties. The GHS classification data given here is based on current Japan official data (NITE published in 2019).