

Date of issue for the 1st edition : 25/Aug/2022

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: Sodium Perborate
Reference number(SDS):24161jis_E−1
Product type:
Quasi-drug raw materials
%This product conform to JSQI (Japanese Standards of Quasi-drug Ingredients).
Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Quasi-drug raw materials in Japan
Uses advised against: Do not use for other purposes.
Details of the supplier of the safety data sheet
Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.
Address: 1–6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan
Division: Quality Assurance Department
Telephone number: +81-48-986-6161
FAX: +81-48-989-2787
e-mail address: shiyaku-t@junsei.co.jp

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

PHYSICAL AND CHEMICAL HAZARDS

Oxidizing solids: Category 2

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 H272-May intensify fire; oxidizer H318-Causes serious eye damage H361-Suspected of damaging fertility or the unborn child H401-Toxic to aquatic life

H411-Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Response In case of fire: Use water in large amounts to extinguish. Collect spillage. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Storage Store locked up. Disposal Dispose of contents/container in accordance with local/national regulation. Specific Physical and Chemical hazards Oxidizing material. Organic or combustible material may catch fire in contact with it.

3. Composition/information on ingredients Mixture/Substance selection:

Substance

Common name, synonyms: Sodium peroxoborate tetrahydrate

Ingredient name:Sodium perborate tetrahydrate

Content (%):95 < Chemical formula:BNaO3·4H2O Chemicals No, Japan:1-826 CAS No.:10486-00-7 [7632-04-4(anh)] MW:153.86 ECNO:231-556-4(anh) Components contributing to the hazard

Toxic for reproduction (Article 57c) in REACH SVHC candidate list Sodium perborate tetrahydrate

4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Get medical advice/attention.

- Immediately call a POISON CENTER/doctor/physician.
- Keep victim warm and quiet.

Call emergency medical service.

IF INHALED

Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult.

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

IF ON SKIN (or hair)

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

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

Remove and isolate contaminated clothing and shoes.

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.

Give a slurry of activated charcoal in water to drink.

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

Most important symptoms and effects, both acute and delayed

(Symptoms when inhalation or ingestion)

Cough. Shortness of breath. Nausea. Vomiting. Diarrhoea.

(Symptoms when skin and/or eye contact)

Conjunctival redness of the eyes. Pain of the eyes.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water in large amounts to extinguish.

Not combustible but enhances combustion of other substances.

Unsuitable extinguishing media

Dry chemicals, Foams.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

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

- Runoff from fire control or dilution water may cause pollution.
- Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Keep drums, etc., cool by spraying with water. NO direct contact with water.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame 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

Keep unauthorized personnel away.

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

PUBLIC SAFTY: Ventilate closed spaces before entering.

Environmental precautions

Avoid release to headsprings, rivers, lakes, ocean and groundwater.

Runoff may create fire or explosion hazard.

Methods and materials for containment and cleaning up

With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Do NOT absorb in saw-dust or other combustible absorbents.

Preventive measures for secondary accident

Collect spillage.

Stop leak if you can do it without risk.

Keep combustibles (wood, paper, oil, etc.) away from spilled material.



Do not get water inside containers. Keep out of low areas.

7. Handling and storage
Precautions for safe handling
Preventive measures
(Exposure Control for handling personnel)
Avoid breathing dust/fume/gas/mist/vapors/spray.
(Protective measures against fire and explosion)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep away from clothing and other combustible materials.
(Exhaust/ventilator)
Exhaust/ventilator should be available.
(Safety treatments)
Avoid contact with skin.
Avoid contact with eyes.
Safety Measures
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
When using do not eat, drink or smoke.
May ignite combustibles (wood, paper, oil, clothing, etc.).
Any incompatibilities
Strong acids, Reducing agents, Combustible substances should not be mixed with the chemicals.
Storage
Conditions for safe storage
Store in a well-ventilated place. Keep container tightly closed.
Keep cool. Protect from sunlight.
Store in accordance with local/national regulation.
Store locked up.
Container and packaging materials for safe handling data is not available.
Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See
Section 8 for exposure controls and personal protection recommendations.
8. Exposure controls/personal protection
Control parameters
Control value in MHLW is not available.
Adopted value
Adopted value in JSOH is not available.
Adopted value in ACGIH is not available.
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
Wear respiratory protection.
Hand protection
Wear protective gloves.
mai protective gioves.



Consult with your glove and/or personnel equipment manufacturer for selection of appropriate compatible materials.

Eye protection

Wear chemical safety goggle.

Wear eye/face protection.

Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Crystalline powder Color: White Odor: None Odor threshold data is not available. Melting point/Freezing point: 63°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: >60°C Self-Accelerating Decomposition Temperature/SADT data is not available. pH data is not available. Dynamic viscosity data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 2.3 g/100 ml (20°C) Solubility in solvent data is not available. n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Vapor density data is not available. Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. Relative density of the Vapor/air – mixture at 20° C (Air = 1) data is not available. Particle characteristics data is not available. Other information Critical temperature data is not available. Evaporation rate data is not available. VOC data is not available.

10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Hygroscopic.

Possibility of hazardous reactions

Decomposes on heating. This produces toxic fumes.

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.



Conditions to avoid Contact with incompatible materials. Heat. Moisture. Incompatible materials Strong acids, Strong oxidizing agents, Reducing agents, Combustible substances Hazardous decomposition products Sodium oxides, Hydrogen peroxide, Boric acid.

11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [GHS Cat. Japan, base data] rat LD50=2100 mg/kg and 2250 mg/kg (PATTY 5th, 2001) Irritant properties Skin corrosion/irritation [GHS Cat. Japan, base data] rabbit/guinea pigs : non irritation (PATTY 5th, 2001) Serious eye damage/irritation [GHS Cat. Japan, base data] 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] cat. 2; Birth Defects 3rd, 2000 Teratogenic effects data is not available. STOT STOT-single exposure data is not available. STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

12. Ecological Information
Ecotoxicity
Aquatic toxicity
H401-Toxic to aquatic life
H411-Toxic to aquatic life with long lasting effects
Hazardous to the aquatic environment (Acute)
[GHS Cat. Japan, base data]
Crustacea (Ceriodaphnia reticulata) EC50=6.98mg/L/48hr (Aquire, 2010)
Water solubility
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.

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No., UN CLASS

UN No. or ID No.: 1479 UN Proper Shipping Name : OXIDIZNG SOLID, N.O.S. Class or division (Transport hazard class) : 5.1 Packing group : II ERG GUIDE No.: 140 IMDG Code (International Maritime Dangerous Goods Regulations) UN No.: 1479 Proper Shipping Name : OXIDIZNG SOLID, N.O.S. Class or division : 5.1 Packing group : II IATA Dangerous Goods Regulations UN No.: 1479 Proper Shipping Name : OXIDIZNG SOLID, N.O.S. Class or division : 5.1 Hazard labels : Oxidizer Packing group : II Environmental hazards MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : yes MARPOL Annex V – Prevention of pollution by garbage discharge Hazardous to the aquatic environment - long-term hazard: cat.1, 2 Sodium perborate tetrahydrate Maritime transport in bulk according to IMO instruments Not applicable to Maritime transport in bulk according to IMO instruments

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Toxic for reproduction (Article 57c)

Sodium perborate tetrahydrate

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

10486-00-7 [7632-04-4(anh)]

All components are listed or exempted.

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility. Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations. Regulatory information in this section are limited to intentional ingredient(s), but does

not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).



Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

16. Other information GHS classification and labelling H272-Ox. Sol. 2: H272 May intensify fire; oxidizer H318-Eye Dam. 1: H318 Causes serious eye damage H361-Repr. 2: H361 Suspected of damaging fertility or the unborn child H401-Aquatic Acute 2: H401 Toxic to aquatic life H411-Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects Reference Book Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2021 Recommendation on TLVs (JSOH) Supplier's data/information Chemicals safety data management system "GHS Assistant" Version 4.18 (https://www.asahi-ghs.com/) NITE Chemical Risk Information Platform "NITE-CHRIP" (https://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop) GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0) (Mar. 2020, METI) Definitions and Abbreviations SDS (Safety Data Sheet) LD50 (Lethal Dose, 50%) LC50 (Lethal Concentration, 50%) IARC (International Agency for Research on Cancer) ACGIH (American Conference of Governmental Industrial Hygienists) EPA (US Environmental Protection Agency) NTP (US National Toxicology Program) JSOH (Japan Society for Occupational Health) EU (European Union) EC50 (Effective Concentration, 50%) NOEC (No Observed Effect Concentration) BOD (Biochemical Oxygen Demand) COD (Chemical Oxygen Demand) BCF (Bioconcentration Factor) anh (anhydride) General Disclaimer 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 2020).

But the data are partially changed based on our judgement.