

Chemical Safety Data Sheet

Section 1 Product and Company Identification

Product Name	Sodium Perborate Tetrahydrate
Manufacturer name	SHANGYU JIEHUA CHEMICAL CO., LTD.
Manufacturer address	Weiyi East Road 1# , Hangzhou Bay Shangyu economic and Technological Development Area, Zhejiang Province P. R. China
Manufacturer post code	312300
Manufacturer fax	+86-575-82211434
Manufacturer email	wangyan@shangyuchem.com/wjy-8012@163. com
Emergency number	+86-532-83889090
Effective date	Dec 28, 2015

Section 2 Hazards Identification

Hazard class and label elements of the substance according to GHS(the fifth revised edition):

GHS hazard class

Pictogram





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Signal

Hazard statement(s)

H302 Harmful if swallowed.
H318 Causes severe eye damage
H331 Toxic if inhaled.
H335 May cause respiratory irritation
H360 May damage fertility or the unborn child.

Precautionary

statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Prevention

P220 Keep away from clothing and other combustible materials.

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

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P310 Immediately call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor/if you feel unwell.

P363 Wash contaminated clothing before reuse.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (%)	CAS No.	EC No.
Sodium Perborate Tetrahydrate	95	10486-00-7	239-172-9
Sodium Metaborate Tetrahydrate	1-3	10555-76-7	231-891-6
Water	0-2	7732-18-5	231-791-2

Section 4 First Aid Measures

After skin contact	Immediate flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical advice.
After ingestion	If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband the substance. Seek immediate medical attention. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.



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Section 5 Fire Fighting Measures

Hazardous products of combustion	Borane/ boron oxides, Sodium oxides.
Extinguishing method	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus , protective clothing and face mask.

Section 6 Accidental Release Measure

Personal protective measures	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Environmental protective measures	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Methods for taking in and cleaning up	Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Clean contaminated surface thoroughly.

Section 7 Handling and Storage

Handling	Avoid contact with skin, eyes, mucous membranes and clothing. In case of insufficient ventilation, wear Suitable respiratory equipment if ingested. Avoid formation of dust and aerosols.
Storage	Keep in a cool, dry, well-ventilated place. Keep tightly closed until used. Store away from incompatible substance such as reducing agents, heavy metal salts.



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Section 8 Exposure Controls/Personal Protection

Engineering Controls	Do not get this material in contact with skin, Do not get this material on clothing, Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Eye protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.
Hand Protection	Wear appropriate chemical resistant gloves.
Body protection	Protective work clothing.

Section 9 Physical and Chemical Properties

Appearance	White, free-flowing granule
Odour	No data available
Odour Threshold	No data available
pH	9.9~10.9
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility(g/L,15°C)	2.55~3.75
Partition coefficient: noctanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available



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Section 10 Stability and Reactivity

Reactive	No data available.
Chemical stability	This is a stable chemical under the recommended storage condition.
Possibility of hazardous reactions	No data available.
Avoid conditions	Incompatible substance, moisture.
Incompatible materials	Avoid contact with strong reducing agents, Heavy metal salts.
Hazardous decomposition products	Borane/boron oxides, Sodium oxides.

Section 11 Toxicological Information

Acute toxicity: Sodium perborate tetrahydrate:

LD50 (Oral, rat): 1200 mg/kg;

LD50 (Inhale, rat): No data available.

LD50 (Dermal, rabbit): No data available..

Skin corrosion/irritation: Cause skin irritation.

Serious eye damage/eye irritation: Cause serious eye damage.

Respiratory or skin sensitization: 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.

Section 12 Ecological Information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.



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Section 13 Disposal Considerations

Property of waste: Hazardous Waste.

Methods of disposal: Contact a licensed professional waste disposal service to disposal of this material.
Dispose of in accordance with local Environment regulations or local authority Requirement.

Precautions of disposal: Professional processing together.

Section 14 Transport Information

UN number:No data available.

UN proper shipping name: SODIUM PERBORATE TETRAHYDRATE.

Transportation primary hazard class: No data available.

Transportation secondary hazard class: ——

Packing group: III

Section 15 Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Sodium Perborate Tetrahydrate	√	√	√	√
Sodium Metaborate Tetrahydrate	√	√	√	√
Water	√	√	√	√

Note 1:

CHINA - China Inventory of Existing Chemical Substances (IECSC)

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS - Japan Existing and New Chemical Substances (ENCS)

EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)

Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

Section 16 Additional Information

This Safety Data Sheet (SDS) was prepared according to UN GHS (the fifth revised edition), is only for users reference. Users should make their independent judgment of suitability of these information for their particular purposes.