



# 绍兴上虞洁华化工有限公司

Shaoxing Shangyu Jiehua Chemical Co., Ltd.

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## Chemical Safety Data Sheet

### Section 1 Product and Company Identification

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

### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

## Response

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.



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## 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

<b>After skin contact</b>	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.
<b>After eye contact</b>	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.
<b>After ingestion</b>	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.
<b>After inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.



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## Section 5 Fire Fighting Measures

<b>Hazardous products of combustion</b>	Borane/ boron oxides, Sodium oxides.
<b>Extinguishing method</b>	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special protective equipment</b>	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

<b>Personal protective measures</b>	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.
<b>Environmental protective measures</b>	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
<b>Methods for taking in and cleaning up</b>	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

<b>Handling</b>	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.
<b>Storage</b>	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

<b>Engineering Controls</b>	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.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Eye protection</b>	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.
<b>Hand Protection</b>	Wear appropriate chemical resistant gloves.
<b>Body protection</b>	Protective work clothing.

## Section 9 Physical and Chemical Properties

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



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## Section 10 Stability and Reactivity

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



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## 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.