

DALIAN F.T.Z. GREAT INDUSTRY&TRADE CO., LTD.

ADD: 1207A HUINENG BUILDING DALIAN F.T.Z.CHINA

TEL: 0086-411-3955-2835

FAX: 0086-411-3926-6880

SAFETY DATA SHEET

◆ Identification of the substance/ preparation And of the company/undertaking

Identification of the substance or preparation

Trade name: Sodium Persulfate

Use of the substance/ preparation

Chemical basic material
For industrial purposes only

Company/undertaking identification

Company name: DALIAN F.T.Z.GREAT INDUSTRY & TRADE CO.,LTD.
Street/POB-No.: 1207A Huineng Building Dalian F.T.Z.China
Telephone: 0086-411-39552835
Fax: 0086-411-39266880

◆ Hazards identification

Classification according to directive 67/548/EEC:



O



Xn

oxidizing

harmful

O; R8

Contact with combustible material may cause fire.

Xn; R22

Harmful if swallowed.

Xi; R36/37/38

Irritating to eyes, respiratory system and skin.

Sens.; R42/43

May cause sensitization by inhalation and skin contact.

Classification according EC regulation 1272/2008 (CLP):



Danger

STOT SE 3; H335

May cause respiratory irritation.

Skin Irrit. 2; H315

Causes skin irritation.

Skin Sens. 1; H317

May cause an allergic skin reaction.

Resp. Sens. 1; H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Acute Tox. 4; H302

Harmful if swallowed.

Eye Irrit. 2; H319

Causes serious eye irritation.

Ox. Sol. 3; H272

May intensify fire; oxidiser.

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◆ Composition/ Information on ingredients

Chemical characterization (substance)

Na₂S₂O₈ = NaO₃-O-O-SO₃Na

Sodium Persulfate

CAS-Number: 7775-27-1

EINECS-Number: 231-892-1

RTECS-Number: SE0525000

Customs tariff number: 28334000

◆ First-aid measures

- After inhalation: Move victim to fresh air. Make sure he/she is warm and comfortable.
If the casualty has difficulty breathing, call a doctor immediately. Where appropriate artificial Ventilation.
If victim is at risk of losing consciousness, position and transport on their side.
- In case of skin contact: Take off immediately all contaminated clothing.
After contact with skin, wash immediately with plenty of water.
In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Subsequently consult an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water.
Avoid vomiting. Immediately get medical attention.
- Information to physician: Treat symptomatically.
Subsequent observance for pneumonia and lung oedema.
Monitor electrolytes and renal function.

◆ Firefighting measures

- Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.
- Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases: Oxidizing. Contact with combustible material may cause fire.
In case of strong heating: Formation of sulphur dioxide.
- Special protective equipment for fire fighters: Wear a self-contained breathing apparatus and chemical protective clothing.
- Additional information: Hazchem-Code: 1Z
Cool endangered containers with water spray and, if possible, remove from danger zone.
Heating causes rise in pressure with risk of bursting.
Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

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◆ Accidental release measures

Personal precautions:

Wear suitable protective clothing. Avoid contact with the substance.

Do not breathe dust. Provide adequate ventilation. Keep away from combustible material.

Measures to protect the environment:

Do not allow to penetrate into soil, waterbodies or drains.

If necessary notify appropriate authorities.

Methods for cleaning up:

Avoid generation of dust. Take up carefully when dry.

Small quantities: Neutralization with Sodium thiosulphate-solution.

Place in appropriate containers for disposal. Final cleaning.

◆ Handling and storage

Handling

Advices on safe handling

Provide adequate ventilation, and local exhaust as needed. Vent dust from the work area.

Open and handle container with care. Do not allow containers to stand open.

Avoid contact with skin, eyes, and clothing. Do not breathe dust.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Do not weld.

Storage

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

Store at room temperature. Protect from light and heat.

Qualified materials: Glass, ceramic, PVC, PE, PP

Hints on joint storage

Keep away from combustible material.

Do not store together with food.

Storage class:

5.1B= Oxidising substances

◆ Exposure controls / Personal protection

Exposure limit values

| Type | Limit value |
|------|-------------|
|------|-------------|

| | |
|------------------------|---------------------|
| Great Britain: WEL-TWA | 1 mg/m ³ |
|------------------------|---------------------|

Exposure controls

Provide good ventilation and/or an exhaust system in the work area. The substance should only be handled in closed apparatus or systems.

See also information in chapter 7, section storage.

Occupational exposure controls

Respiratory protection:

In case of dust: Particulates filter P2/P3, identification colour white, according to EN 143.

Hand protection:

Protective gloves according to EN 374.

Glove material: Nitrile rubber or chloroprene rubber.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

Tightly sealed safety glasses according to EN 166.

Body protection:

Flame retardant protective clothing

General protection and hygiene measures:

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Take off immediately all contaminated clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Safety shower and eye wash station should be easily accessible to the work area.

◆ Physical and chemical properties

Appearance

Physical state: solid
Colour: white
Odour: odourless

Important health, safety and environmental information

Boiling temperature / boiling range: (Decomposition)
Melting point / melting range: (Decomposition) 180 °C
Flash point / flash point range: not combustible
Flammability: oxidizing
Density: at 20 °C: 2,4-2,6 g/cm³
pH value: at 20 °C, 100 g/L: 3,5-3,8
Water solubility: at 20 °C: 545 g/L
at 60 °C: 680 g/L
Thermal decomposition: approx. 180 °C

Additional information

Molecular weight: 238,1 g/mol

◆ Stability and reactivity

Conditions to avoid: Keep away from heat. Protect from moisture contamination.
Materials to avoid: Decomposition in water: Formation of hydrogen peroxide and Oxygen. Risk of fire!
Reacts with alcohols: Formation of oxygen and sulphur dioxide.
strong acids, salts of heavy metals, reducing agent, ammonium compounds, cyanides, combustible substances
Hazardous decomposition products: In case of strong heating: Formation of sulphur dioxide.
Thermal decomposition: approx. 180 °C
Additional information: hygroscopic
Oxidizing effect due to oxygen generation.

◆ Toxicological information

Toxicological Tests:

Acute toxicity : LD50 Rat, oral: 895-920 mg/kg (IUCLID)
After inhalation: Dusts: strongly irritant. Cough, shortage of breath. Pulmonary edema is possible.
Symptoms may occur with delay.
After swallowing: harmful
In case of skin contact: strongly irritant

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After eye contact: strongly irritant

General remarks

May cause sensitization by inhalation and skin contact.

Other symptoms: Headache, nausea, nausea.

◆ Ecological information

Ecotoxicity

Aquatic toxicity :

Daphnia toxicity:

EC50 Daphnia magna: 133 mg/L/48 h.

NOEC: Daphnia magna: 67,6 mg/L/48 h.

Fish toxicity:

LC50 Lepomis macrochirus (bluegill): 771 mg/L/96 h.

NOEC Lepomis macrochirus (bluegill): 391 mg/L/96 h.

Source: IUCLID.

Water Hazard Class:

1 = slightly hazardous to water (WGK catalog number 1352)

Persistence and degradability

Further details:

Decomposition/hydrolysis: Formation of sulphuric acid.

Harmful effects on water organisms by modification of pH-value.

Additional ecological information

General information:

Do not allow to enter in the ground-water, surface water or drains.

◆ Disposal considerations

Product

Waste key number

160904* = Oxidising substances

* = Evidence for disposal must be provided.

Recommendation:

Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation:

Dispose of waste according to applicable legislation.

◆ Transport information

Land transport (ADR/RID)

Warning board:

ADR/RID: Kemmler-number 50, UN number 1505

Product designation:

UN 1505, SODIUM PERSULPHATE

ADR/RID:

Class 5.1, Code: O2



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| | |
|---|----------------------|
| Packaging group: | III |
| Hazard label: | 5.1 |
| Limited quantities: | LQ12 |
| EQ: | E1 |
| Contaminated packaging: Instructions: | P002 IBC08 LP02 R001 |
| Contaminated packaging: Special provisions: | B3 |
| Special provisions for packing together: | MP10 |
| Portable tanks: Instructions: | T1 |
| Portable tanks: Special provisions: | TP33 |
| Tank coding: | SGAV |
| Tunnel restriction code: | E |

Sea transport (IMDG)

| | |
|---------------------------------------|---|
| UN number: | 1505 |
| Proper shipping name: | SODIUM PERSULPHATE |
| IMDG: | Class 5.1, Code - |
| Packing Group: | III |
| EmS: | F-A, S-Q |
| Special provisions: | - |
| Limited quantities: | 5 kg |
| EQ: | E1 |
| Contaminated packaging: Instructions: | P002, LP02 |
| Contaminated packaging: Provisions: | - |
| IBC: Instructions: | IBC08 |
| IBC: Provisions: | B3 |
| Tank instructions: IMO: | - |
| Tank instructions: UN: | T1 |
| Tank instructions Provisions: | TP33 |
| Stowage and segregation: | Category A. "Separated from" ammonium compounds, other than AMMONIUM PERSULPHATE (UN1444), and cyanides. |
| Properties and observations: | White crystals or powder. Soluble in water. Mixtures with combustible material are sensitive to friction and are liable to ignite. Reacts fiercely with cyanides when heated or by friction. May form explosive mixture with powdered metals or ammonium compounds. |
| Marine Pollutant: | No |

Air transport (IATA)

| | |
|-----------------------|--------------------------------|
| UN/ID number: | 1505 |
| Proper shipping name: | SODIUM PERSULPHATE |
| ICAO/IATA: | Class 5.1 |
| Hazard | Oxidizer |
| PG | III |
| EQ | E1 |
| Passenger Ltd.Qty .: | Y516 - Maximum quantity: 10 kg |
| Passenger: | 516 - Maximum quantity: 25 kg |
| Cargo: | 518 - Maximum quantity: 100 kg |
| ERG | 5L |

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◆ Regulatory information

Labelling (67/548/EEC or 1999/45/EC)

Code letter and hazard symbol:

| | | |
|--------------|------------|---|
| | O | Oxidizing |
| | Xn | Harmful |
| R phrase(s): | R 8 | Contact with combustible material may cause fire. |
| | R 22 | Harmful if swallowed. |
| | R 36/37/38 | Irritating to eyes, respiratory system and skin. |
| | R 42/43 | May cause sensitization by inhalation and skin contact. |
| S phrase(s): | S 22 | Do not breathe dust. |
| | S 24 | Avoid contact with skin. |
| | S 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | S 37 | Wear suitable gloves. |
| | S 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

Labelling (EU-GHS)

Hazard symbols:



| | | |
|--------------------|----------------|--|
| Signal word | Danger | |
| Hazard Statements | H272 | May intensify fire; oxidiser. |
| | H302 | Harmful if swallowed. |
| | H315 | Causes skin irritation. |
| | H317 | May cause an allergic skin reaction. |
| | H319 | Causes serious eye irritation. |
| | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| | H335 | May cause respiratory irritation. |
| Safety precautions | P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| | P220 | Keep/Store away from combustible materials. |
| | P261 | Avoid breathing dust. |
| | P264 | Wash hands and face thoroughly after handling. |
| | P270 | Do not eat, drink or smoke when using this product. |
| | P271 | Use only outdoors or in a well-ventilated area. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | P285 | In case of inadequate ventilation wear respiratory protection. |
| | P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| | P330 | Rinse mouth. |
| | P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| | P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| | P362 | Take off contaminated clothing and wash before reuse. |
| | P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position 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. |

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| | |
|-----------|---|
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

National regulations

National regulations - Great Britain

Hazchem-Code: 1Z

National regulations - Germany

Storage class: 5.1B= Oxidising substances

Water Hazard Class: 1 = slightly hazardous to water (WGK catalog number 1352)

Incident regulation: Nr. 3

Informations on working limitations:

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

National regulations - USA

TSCA Inventory: listed

TSCA HPVC: not listed

NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 0 (Minimal)

Physical Hazard: 2 (Moderate)

Personal Protection: X = Consult your supervisor



| | |
|-----------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 2 |
| | X |

◆ Other information

Group that issues data sheet

Contact person: see chapter 1, department responsible for information.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

End of MSDS