

Material Safety Datasheet

CAS No 7775-27-1

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SODIUM PERSULFATE

Company Details

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1.Product and Company Identification

<u>Trade / Commercial Name</u>	SODIUM PERSULFATE		
<u>Chemical Name</u>	sodium persulphate		
<u>Formula</u>	Na ₂ S ₂ O ₈		
<u>Chemical Family</u>			
<u>Synonyms</u>	Sodium peroxydisulfate; Peroxydisulfuric acid, disodium salt; Peroxydisulfuric acid		
<u>Un No</u>	1505	<u>Hazchem Code</u>	2p
<u>ERG No</u>	140	<u>EAC</u>	47

2. Composition

<u>Hazardous Components</u>	sodium persulphate
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3. Hazards Identification

Oxidizing Agent

If inhaled, could be harmful.

Contact causes severe burns to skin and eyes.

Fire could produce irritating or poisonous gases.

Runoff from fire-control or dilution water could cause pollution.

4. First Aid Measures

<u>First Aid Skin</u>	Immediately remove contaminated clothing, including shoes. Flush body with plenty of water for at least 15 minutes.
<u>First Aid Eyes</u>	Flush eyes with water for 15 minutes. Hold eyelids open while washing.
<u>First Aid Ingested</u>	Seek immediate medical advice.

First Aid Inhalation

Immediately remove to fresh air.

5. Fire Fighting Measures

SMALL FIRES: Water only, no dry chemicals, CO2 or Hal on.

LARGE FIRES: Flood fire area with water.

Do not move cargo or vehicle if cargo has been exposed to heat.

Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks.

For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Keep unnecessary people away; isolate hazard area and deny entry.

Stay upwind; keep out of low areas.

Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

6. Accidental Release Measures

Full protective clothing including breathing apparatus

Dilute (substance may be washed to drain with a lot of water)

PRECAUTIONS:

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

Notify occupational and environmental authorities.

SPILL OR LEAK:

Keep combustibles (wood,paper,oil,etc) away from hazard area.

Do not touch spilled material.

Stop leak if you can do it without risk.

Use water spray to reduce vapours.

SMALL SPILLS:

Flush area with flooding amounts of water.

LARGE SPILLS:

Dike liquid spill for later disposal

7. Handling And Storage

Handling

Information for safe handling:

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

Substance/product can reduce the ignition temperature of flammable substances.

This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from flammable substances.

Store away from reducing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

No Exposure Limits Established

Controls

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.

Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.

Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area

Personal Protection

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection.

Have appropriate equipment available for use in emergencies.

9. Physical & Chemical Properties

Crystalline

Color: White

Odor: Odorless

Melting point/Melting range: 100 °C

Contact with combustible material may cause fire.

Density: at 20 °C 2.6 g/cm

Solubility in / Miscibility with Water: Soluble

10. Stability And Reactivity

Conditions to Avoid

Decomposition will not occur if used and stored according to specifications

Incompatible Materials

Reducing agents, easily oxidized materials

Organic materials

Alcohols

Ammonia

Magnesium

Bases

Heavy metal powders

Other

Dangerous reactions

Reacts with reducing agents

Reacts with flammable substances

Dangerous products of decomposition: Sulfur oxides (SO_x)

11. Toxicological Information

Acute toxicity:

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Subacute to chronic toxicity:

Persulfates may cause dermatitis and skin rashes. May cause allergic reactions by skin contact and inhalation.

12. Ecological Information

No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations

Disposal Method Product

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste.

The disposal of the latter is regulated in the EC member countries through

corresponding laws and regulations.

We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal Method Packaging Disposal in accordance with local legal provisions.

14. Transport Information

<u>UN No</u>	1505	<u>Hazchem Code</u>	2p
<u>ERG No</u>	140	<u>EAC</u>	47
<u>IMDG Code</u>	5081	<u>IMDG-Packaging Group</u>	III
<u>Marine Pollutant</u>	True		
<u>Class</u>	Class: 5.1 Oxidizing Agent Group: III		
<u>Subsidiary Risks</u>	None		
<u>Tremcard Number</u>	****		

15. Regulatory Information

<u>EEC Hazard Classification</u>	5.1
<u>Risk Phases</u>	8 - Contact with combustible material may cause fire. 36/37/38 - Irritating to eyes, respiratory system and skin.
<u>Safety Phases</u>	26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<u>National Legislation</u>	

16. Other Information

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.