Material Safety Data Sheet / Safety Data sheet
Sodium Persulphate

Section 1: Chemical Product Identifier and Synonyms

Product Name: Sodium Persulphate

UN Number: 1505

CAS Number: 7727-54-0

Synonym: Sodium Peroxodisulfate, Sodium Peroxodisulphate or Sodium Peroxydisulphate

Chemical Formula: $Na_2S_2O_8$

Section 2: Composition and Information on Ingredients

Composition

Name	CAS Number:	% By Weight
Sodium Persulphate	7727-54-0	>100%

Toxicology Data On Ingredients: Sodium Persulphate LD50: Not Available. LC50: Not Available

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of inhalation. Hazardous in case of ingestion. Slightly hazardous in case of skin contact (permeator). Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-Flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Higher than 93.3°C (200°F).
Flammable Limits: Not applicable.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not applicable.
Explosion Hazards in Presence of Various Substances: Not available.
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Dangerous in contact with organic materials.

Special Remarks on Fire Hazards: Not available.
Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood,

paper, oil, clothing etc). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dyke if needed. Call for assistance on disposal.

Section 7: Handling and Storage

Precautions:

Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material Keep away from direct sunlight or strong incandescent light. Do not breathe dust. Never add water to this product. Avoid shock and friction. In case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes

Storage:

Oxidizing materials should be stored in a separate safety storage cabinet or room.

Section 8: Exposure Controls / Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odour: Odourless.

Taste: Bitter.

Molecular Weight: 238.1 g/mole

Colour: White.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: 120°C (248°F)
Critical Temperature: Not available.
Specific Gravity: 2.6 (Water = 1)
Vapour Pressure: Not available.
Vapour Density: Not available.
Volatility: Not available.
Odour Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: See solubility in water.
Solubility: Very soluble in water (Hot and Cold). Insoluble in methanol, diethyl ether, n-octanol

Section 10: Stability and Reactivity Data

Stability: The product is stable under normal conditions.
Instability Temperature: Not available.
Conditions of Instability: Excess heat, ignition sources, incompatible materials
Incompatibility with various substances: Highly reactive with reducing agents, organic materials, moisture. Reactive with metals, acids. Slightly reactive to reactive with alkalis.
Special Remarks on Reactivity: Incompatible with alcohols
Special Remarks on Corrosivity: Corrosive in presence of steel, of aluminum, of zinc, of copper. Non-corrosive in presence of glass.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.
Toxicity to Animals: (LD50): Not available. LC50: Not available.
Chronic Effects on Humans: The substance is toxic to blood, lungs
Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant, sensitizer), of inhalation. Hazardous in case of ingestion. Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: May cause allergic skin reactions with repeated exposure
Special Remarks on other Toxic Effects on Humans: CAUTION: Certain sensitive individuals may develop eczema and/orasthma on exposure to this material.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Not available.
Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Information

Waste Disposal: Dispose of in accordance with local regulations

Section 14: Transport Information

DOT Classification: CLASS 5.1: Oxidizing material.

Identification: Sodium Persulphate: UN1505 PG: III

Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Regulations: Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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