

SAFETY DATA SHEET

Multichem Specialities Pvt. Ltd.
1215, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 2243432121
E: multichem@multichemindia.com
www.multichemindia.com



SODIUM PERSULFATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	7775-27-1
EC number:	231-892-1
1.2 SYNONYMS:	• Sodium Peroxydisulfate • Disodium Peroxydisulfate • Peroxydisulfuric acid • disodium salt • Peroxydisulfuric acid • sodium salt

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2B) Respiratory sensitization (Category 1) Skin sensitization (Category 1) Specific target organ toxicity (single exposure) (Category 3) Oxidizing Solids (Category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

	H335: May cause respiratory irritation H320: Causes eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction H302: Harmful if swallowed H272: May intensify fire; oxidizer
Precautionary Statements:	P102: Keep out of reach of children. P103: Read label before use. P220: Keep away from clothing and other combustible materials. P280: Wear protective gloves, protective clothing, and eye/face protection. Keep only in original P234: container. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink, or smoke when using this product. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P332 + P313: If skin irritation occurs: Get medical advice/attention. P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.

	P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and difficulty breathing.
Ingestion:	can cause irritation to the mouth, throat, and gastrointestinal tract, potentially leading to nausea, vomiting, and abdominal pain.
Skin Contact:	can cause irritation, redness, and, in some cases, chemical burns.
Eye contact:	can cause severe irritation, redness, pain, and potential damage to the eye tissues.
Chronic Exposure:	may lead to skin sensitization, respiratory issues such as asthma, and ongoing irritation to the eyes, skin, or respiratory system
Aggravation of pre-existing conditions:	May aggravate conditions like asthma, respiratory disorders, or skin sensitivities may occur with exposure to sodium persulfate, leading to worsened symptoms or reactions.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 7775-27-1 SODIUM PERSULFATE
Identification number(s):	EC number: 231-892-1

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	important symptoms and effects include acute irritation of the eyes, skin, and respiratory system, with potential delayed effects such as chronic skin sensitization and respiratory issues.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	can cause fire, explosion, or violent reactions when in contact with combustible materials or certain chemicals, as it is a strong oxidizer.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool

	tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation.
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	Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area.
	Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.

Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Crystalline powder
Colour:	White
Odour:	Odorless
pH-value:	6.0
Melting point/Melting range:	180°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Non-flammable
Ignition temperature:	Not applicable
Decomposition temperature:	100°C
Self-igniting:	No
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	6.07 mm Hg at 25°C
Density at 20 °C:	2.59 g/cm ³
Relative density:	2.59
Vapour density:	Not applicable
Evaporation rate:	Not applicable

Solubility in / Miscibility with- water at 20 °C:	Highly soluble
Partition coefficient:(n- octanol/water)	Not applicable
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	Strong oxidizer. Contact with other material may cause fire.
10.2 Chemical stability	Decomposition can occur on exposure to heat or moisture.
10.3 Possibility of hazardous reactions	Decomposing persulfates will evolve large volumes of gas and/or vapor.
10.4 Conditions to avoid	Moisture, heat.
10.5 Incompatible materials	Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials.
10.6 Hazardous decomposition products	Sulfur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 895 mg/kg LD50 (Dermal, Rabbit): 10,000 mg/kg LC50 (Inhalation Rat): 5.1 mg/l (4hr)
Skin corrosion/Irritation:	Minimally irritating.
Serious eye damage/irritation:	Cause eye irritation.
Respiratory damage/irritation:	May cause respiratory irritation.
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available

Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): 163 mg/l (96hr) LC50(grass shrimp): 519 mg/l (96hr) LC50(daphnia): 133 mg/l (48hr) EC50(algae): 116 mg/l (72hr)
12.2 Persistence and degradability:	Not biodegradable and persistent
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	Not mobile
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Isopropyl alcohol, diluted mild acids.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1505
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	SODIUM PERSULFATE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	5.1

14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Not classified.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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