

SAFETY DATA SHEET

POTASSIUM MONOPERSULFATE

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

1.1 Product identifier:	
CAS Number:	70693-62-8
EC number:	274-778-7
1.2 SYNONYMS:	- Potassium peroxymonosulfate - Potassium hydrogen peroxymonosulfate - Monopersulfate - MPS (abbreviation) - Triple-Salt Oxidizer

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 (category 4) Skin corrosion/irritation (category 1B) Serious Eye Damage/Eye Irritation (Category 1) Hazardous to the aquatic environment, long-term(Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H302: Harmful if swallowed H314: Causes severe skin burns and eye damage H318: Causes serious eye damage H412: Harmful to aquatic life with long lasting effects
Precautionary Statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection.

	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash thoroughly after handling. P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P220: Keep/Store away from clothing and other combustible materials. P221: Take any precaution to avoid mixing with combustibles. P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. 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 or doctor. P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. P406: Store in a corrosion-resistant container with a resistant lining.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, or shortness of breath.

Ingestion:	may cause gastrointestinal irritation, nausea, vomiting, abdominal pain.
Skin Contact:	may cause irritation, redness, severe chemicals burns.
Eye contact:	can cause severe irritation, redness, pain, and potential eye damage.
Chronic Exposure:	may lead to respiratory issues, skin sensitivity, and prolonged irritation or damage to the eyes, particularly with repeated or prolonged contact with high concentrations.
Aggravation of pre-existing conditions:	may aggravate pre-existing respiratory conditions (such as asthma or bronchitis), skin disorders, or eye conditions.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 70693-62-8 POTASSIUM MONOPERSULFATE (98%) 7487-88-9 MAGNESIUM SULFATE (2%)
Identification number(s):	EC number: 224-778-7 POTASSIUM MONOPERSULFATE 231-298-2 MAGNESIUM SULFATE

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:	Immediately flush skin with plenty of water. 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. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Causes severe skin burns and severe eye damage.
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. Dry chemical.
5.2 Special hazards arising from the substance or mixture:	In case of fire: sulfur oxides, potassium oxide, irritating and toxic fumes and gases.
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:	Avoid contact with skin, eyes, mucous membranes and clothing. 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.
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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. 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. . Provide for a tub to collect spills.
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:	White solid.
Colour:	White
Odour:	No data available
pH-value:	3
Melting point/Melting range:	190–200°C
Boiling point/Boiling range:	No data available
Flammability (solid, gaseous):	Non Flammable

Ignition temperature:	>200°C
Decomposition temperature:	200°C
Self-igniting:	Not applicable
Flash point:	Not applicable
Danger of explosion:	Not applicable
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	No data available
Density at 20 °C:	1.98 g/cm ³ .
Relative density:	1.98
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with- water at 20 °C:	Highly soluble
Partition coefficient:(n- octanol/water)	No data available
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	Heat, flames and sparks. Incompatibles. The extreme temperatures and direct sunlight
10.5 Incompatible materials	Avoid contact with flammable substances, reducing agents, metal powders, strong bases, water/moisture, organic materials, etc.
10.6 Hazardous decomposition products	May form sulfur oxides, potassium oxide, irritating and toxic fumes and gases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat) : 1204 mg/kg LD50 (Dermal, Rabbit) : no data available LC50 (Inhalation Rat) : no data available
Skin corrosion/Irritation:	Causes severe skin irritation and burns
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory damage/irritation:	Not classified
Ingestion:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity - single exposure:	Not classified
Specific target organ toxicity - repeated exposure:	Not classified
Aspiration hazard:	Not classified
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): 53mg/l (96hr) EC50 (daphnia): no data available (48 hr) EC50 (algae): no data available (72 hr)
12.2 Persistence and degradability:	Not biodegradable.
12.3 Bioaccumulative potential:	Not bioaccumulative.
12.4 Mobility in soil:	High mobility.
12.5 Other adverse effects:	Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Mild Soap and Water , Isopropyl Alcohol (IPA), sodium bicarbonate or sodium hydroxide.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	UN 3260
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Potassium monopersulfate
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Harmful to aquatic life with long lasting effects.
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

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