

SAFETY DATA SHEET

OXONE

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:	274-778-8
1.2 SYNONYMS:	<ul style="list-style-type: none">• Potassium peroxymonosulfate• KHSO₅• Potassium oxone• Oxone• Monopersulfate potassium salt

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute Toxicity, Oral (Category 4) Acute Toxicity, Inhalation (Category 4) Skin Corrosion/Irritation (Category 1 A) Serious Eye Damage/Eye Irritation (Category 1) Respiratory Sensitization (Category 1) Skin Sensitization (Category 1) Specific target organ toxicity - (single exposure) (Category 3) Chronic aquatic toxicity (Category 3)
Hazard Pictograms:	

Signal Word:	Danger
Hazard statements:	<p>H314: Causes severe skin burns and eye damage</p> <p>H317: May cause an allergic skin reaction</p> <p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H335: May cause respiratory irritation</p> <p>H412: Harmful to aquatic life with long lasting effects</p> <p>H302 + H332: Harmful if swallowed or if inhaled</p>
Precautionary Statements:	<p>P264: Wash face, hands and any exposed skin thoroughly after handling</p> <p>P270: Do not eat, drink or smoke when using this product</p> <p>P271: Use only outdoors or in a well-ventilated area</p> <p>P272: Contaminated work clothing should not be allowed out of the workplace</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P284: In case of inadequate ventilation wear respiratory protection</p> <p>P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</p>

	<p>P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing</p> <p>P310: Immediately call a POISON CENTER or doctor</p> <p>P330: Rinse mouth</p> <p>P331: Do NOT induce vomiting</p> <p>P362 + P364: Take off contaminated clothing and wash it before reuse</p> <p>P403 + P233: Store in a well-ventilated place. Keep container tightly closed</p> <p>P501: Dispose of contents/container in accordance with local/regional/national/international regulations</p>
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, shortness of breath, and throat discomfort.
Ingestion:	may cause severe digestive irritation, nausea, vomiting, abdominal pain, and potential damage to the gastrointestinal tract.
Skin Contact:	may cause severe irritation, burns, redness, and tissue damage.
Eye contact:	may cause severe irritation, burns, redness, pain, and potential damage to the cornea, possibly leading to permanent eye damage.
Chronic Exposure:	may lead to respiratory issues, including persistent irritation of the lungs, nasal passages, and throat, as well as potential skin sensitization or allergic reactions. Prolonged or repeated exposure could also cause damage to the eyes or mucous membranes.

Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma or chronic bronchitis), skin conditions (e.g., eczema), and eye problems (e.g., conjunctivitis), as the substance can cause irritation and exacerbate symptoms.
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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 70693-62-8 Potassium peroxymonosulfate sulphate 7790-62-7 Potassium pyrosulfate 7727-21-1 Potassium persulfate 7646-93-7 Potassium hydrogen sulfate
Identification number(s):	EC number: 274-778-8 (Potassium peroxymonosulfate sulphate) 232-216-8 (Potassium pyrosulfate) 231-781-8 (Potassium persulfate) 231-594-1 (Potassium hydrogen Sulphate)

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. If conscious, make victim drink water (two glasses at most). Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects include acute irritation and burns to the skin, eyes, and respiratory tract, while delayed effects may involve persistent respiratory issues, skin sensitization, and potential 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. Alcohol-resistant foam. Do not use water jetstream.
5.2 Special hazards arising from the substance or mixture:	May release toxic gas when decomposed or heated.
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. 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.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Crystalline powder
Colour:	White
Odour:	Odourless
pH-value:	3
Melting point/Melting range:	180°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Non- Flammable
Ignition temperature:	Not determined
Decomposition temperature:	190°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	Not determined
Density at 20 °C:	2.32 g/cm ³
Relative density:	2.32
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with- water at 20 °C:	Highly soluble
Partition coefficient:(n- octanol/water)	Not determined
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	Hygroscopic. Oxidizer: Contact with combustible/organic material may cause fire.
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, flame, strong acid and bases.
10.5 Incompatible materials	Strong oxidizing agents. Strong reducing agents. Combustible material.
10.6 Hazardous decomposition products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Sulfur oxides. Potassium oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 1204 mg/kg LD50 (Dermal, Rabbit): 11000 mg/kg LC50 (Inhalation Rat): 14 mg/l (1 hr)
Skin corrosion/Irritation:	Causes serious skin irritation
Serious eye damage/irritation:	Causes serious eye irritation
Respiratory damage/irritation:	Causes serious skin 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): 32 mg/l (96hr) EC50(daphnia): 357 mg/l (24 hr) ErC50(algae): no data available
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:	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, Sodium bicarbonate, Diluted acid.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3260
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Potassium peroxymonosulfate sulfate
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	
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 been carried out under REACH regulation.

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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