

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)
OXONE LR (POTASSIUM PEROXYMONOSULPHATE)
1: Identification of the substance/mixture and of the company/undertaking

Product name : OXONE®, monopersulfate compound
 REACH No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
 CAS-No: 70693-62-8

Product Coad: O0150800250

2: Hazards identification
Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Oxidizing solids (Category 3), H272
 Skin corrosion (Category 1A), H314
 Respiratory sensitisation (Category 1), H334
 Skin sensitisation (Category 1), H317
 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

O Oxidising R8
 C Corrosive R35
 Xn Harmful R42/43
 Xi Irritant R37

For the full text of the R-phrases mentioned in this Section, see Section 16.

Label elements
Labelling according Regulation (EC) No 1272/2008

Pictogram
 Signal word Danger
 Hazard statement(s)
 H272 May intensify fire; oxidiser.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 Precautionary statement(s)
 P220 Keep/Store away from clothing/ combustible materials.
 P261 Avoid breathing dust.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 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/ physician.
 Supplemental Hazard none Statements

According to European Directive 67/548/EEC as amended.

Hazard symbol(s) O Oxidising
 C Corrosive
 R-phrases(s)
 R8 Contact with combustible material may cause fire.
 R35 Causes severe burns.
 R37 Irritating to respiratory system.
 R42/43 May cause sensitisation by inhalation and skin contact.
 S-phrases(s)
 S22 Do not breathe dust.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards - none

3: Composition/information on ingredients
Mixtures

Synonyms : Potassium peroxymonosulfate
 Formula : HKO5S · 0.5HKO4S · 0.5K2O4S
 Molecular Weight : 307,38 g/mol

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Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Potassium hydrogensulphate		
CAS-No.	7646-93-7	Skin Corr. 1B; STOT SE 3; 20 - 25 %
EC-No.	231-594-1	H314, H335
Index-No.	016-056-00-4	

Dipotassium peroxodisulphate

CAS-No.	7727-21-1	Ox. Sol. 3; Acute Tox. 4; Skin 1 - 10 %
EC-No.	231-781-8	Irrit. 2; Eye Irrit. 2; Resp. Sens.
Index-No.	016-061-00-1	1; Skin Sens. 1; STOT SE 3;
	H272, H302, H315, H317,	
	H319, H334, H335	

Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
Potassium hydrogensulphate		
CAS-No.	7646-93-7	C, R34 - R37 20 - 25 %
EC-No.	231-594-1	
Index-No.	016-056-00-4	

Dipotassium peroxodisulphate

CAS-No.	7727-21-1	O, Xn, R 8 - R22 - R36/37/38 - 1 - 10 %
EC-No.	231-781-8	R42/43
Index-No.	016-061-00-1	

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

4: First aid measures
Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed no data available

5: Firefighting measures
Extinguishing media
Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Potassium oxides, Magnesium oxide

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6: Accidental release measures
Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections For disposal see section 13.

MATERIAL SAFETY DATA SHEET (MSDS)
OXONE LR (POTASSIUM PEROXYMONOSULPHATE)
7: Handling and storage
Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
 Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition
 - No smoking. Keep away from heat and sources of ignition. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic
Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8: Exposure controls/personal protection
Control parameters
Components with workplace control parameters
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
Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

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 and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, test method: EN374
 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9: Physical and chemical properties
Information on basic physical and chemical properties

- a) Appearance Form: crystalline
- Colour: white
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH 2 at 30 g/l at 77 °C
- e) Melting point/freezing no data available

MATERIAL SAFETY DATA SHEET (MSDS)
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point

- f) Initial boiling point and no data available
boiling range
- g) Flash point not applicable
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits no data available
- k) Vapour pressure no data available
- l) Vapour density no data available
- m) Relative density 1,100 - 1,400 g/cm³
- n) Water solubility soluble
- o) Partition coefficient: n- no data available
octanol/water
- p) Auto-ignition temperature no data available
- q) Decomposition temperature no data available
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties The substance or mixture is classified as oxidizing with the category 3.
- Other safety information**
no data available

10: Stability and reactivity.
Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reaction no data available

Conditions to avoid no data available

Incompatible materials

Strong bases, Acids, Bases, Powdered metals, Strong oxidizing agents, Organic materials, Alcohols, acids, phosphorous, Halogens, Anhydrides, Phosphorus, Strong reducing agents

Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11: Toxicological information
Information on toxicological effects
Acute toxicity no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

Germ cell mutagenicity no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Additional Information RTECS: Not available

spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache

12: Ecological information
Toxicity no data available

Persistence and degradability no data available

Bioaccumulative potential no data available

Mobility in soil no data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects no data available

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MATERIAL SAFETY DATA SHEET (MSDS)**OXONE LR (POTASSIUM PEROXYMONOSULPHATE)****13: Disposal considerations****Waste treatment methods**

Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product.

14: Transport information**UN number**

ADR/RID: 3215 IMDG: 3215 IATA: 3215

UN proper shipping name

ADR/RID: PERSULPHATES, INORGANIC, N.O.S.

IMDG: PERSULPHATES, INORGANIC, N.O.S.

IATA: Persulphates, inorganic, n.o.s.

Transport hazard class(es)

ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1

Packaging group

ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

no data available

15 - REGULATORY INFORMATION

N/A

16. OTHER

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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