Material Safety Data Sheet

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

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1 -	Product	and	Company	Information

Product Name Product Number	OXONE, MONOPERSULFATE COMPOUND 228036
Company	Sigma-Aldrich Pty, Ltd Unit 2, 14 Anella Avenue Castle Hill NSW 1765 Australia
Technical Phone # Fax Emergency Phone #	+61 2 9841 0555 +61 2 9841 0500 +61 2 9841 0566

2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number		
OXONE (R), MONOPERSULFAT	E COMPOUND	70693-62-8	274-778-7	None	
Ingredient Name	Percent	CAS #	EC no	Annex I Index Number	
POTASSIUM PEROXYMONOSULFATE	43	10058-23-8	None	None	
POTASSIUM HYDROGEN SULFATE	23	7646-93-7	231-594-1	016-056-00-4	

Symbols: C

R-Phrases: 34 37

Causes burns. Irritating to respiratory system.

POTASSIUM SULFATE 29 7778-80-5 231-915-5 None

POTASSIUM PEROXODISULFATE3 7727-21-1 231-781-8 016-061-00-1

Symbols: O Xn

R-Phrases: 8 22 36/37/38 42/43

Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

MAGNESIUM CARBONATE 2 546-93-0 208-915-9 None

Formula 2HKO5S.HKO4S.K2O4S

Molecular Weight 614.8 AMU

Synonyms Potassium peroxymonosulfate sulfate

(K5[HSO39(O2)][SO3(O2)][(HSO4)2) (9CI) * Caroat

(R) * Caro's acid

3 - Hazards Identification

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

5 - Fire Fighting Measures

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions. May accelerate combustion.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

SPECIAL REQUIREMENTS: Hygroscopic.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

EXPOSURE LIMITS

Country Source Type Value USA OSHA. PEL15 mg/m3

Remarks: total dust

PEL5 mg/m3OSHA.

Remarks: respirable dust

USA ACGIH TLV

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance Physical State: Solid

Color: White

Form: Fine crystals

Value Property At Temperature or Pressure 2.3 77 °C Concentration: 10 рН q/1BP/BP Range N/AMP/MP Range N/AFlash Point N/AFlammability N/AAutoignition Temp N/AOxidizing Properties N/A Explosive Properties N/A Explosion Limits N/AVapor Pressure N/ASG/Density 1.1 - 1.4 g/cmPartition Coefficient N/AViscosity N/AVapor Density N/AN/A

Saturated Vapor Conc. N/A Evaporation Rate Bulk Density N/AN/ADecomposition Temp. Solvent Content N/AWater Content N/ASurface Tension N/AConductivity N/AMiscellaneous Data N/A

Solubility Solubility in Water: Soluble.

Other Solvents: H2O,25.6 WT% @ 20C

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions of Instability: May decompose on exposure to moist air

Conditions to Avoid: Do not heat above 50°C.

Materials to Avoid: Strong reducing agents, Finely powdered

metals, Strong bases, Halogens, Halides, Cyanides.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Potassium oxides, Sulfuric acid, Sulfur oxides, Oxygen.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

ACUTE TOXICITY

LD50 Oral Rat

2,000 mg/kg

LC50

Inhalation

Rat

> 5,000 mg/m

4 H

LD50 Skin

Rabbit

> 11,000 mg/kg

IRRITATION DATA

Skin

Remarks: Corrosive.

SENSITIZATION

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes burns.

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper

respiratory tract.

Ingestion: Harmful if swallowed.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local

14 - Transport Information

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RID/ADR
   UN#: 3260
   Class: 8
   PG: II
   Proper Shipping Name: Corrosive solid, acidic,
   inorganic, n.o.s.
TMDG
   UN#: 3260
   Class: 8
   PG: II
   Proper Shipping Name: CORROSIVE SOLID, ACIDIC,
   INORGANIC, N.O.S.
   Marine Pollutant: No
   Severe Marine Pollutant: No
   Technical Name: Required
IATA
   UN#: 3260
   Class: 8
   PG: II
   Proper Shipping Name: Corrosive solid, acidic,
   inorganic, n.o.s.
   Inhalation Packing Group I: No
   Technical Name: Required
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15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
INDICATION OF DANGER: C
Corrosive.

R-PHRASES: 22 34
Harmful if swallowed. Causes burns.

S-PHRASES: 26 36/37/39 45
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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COUNTRY SPECIFIC INFORMATION

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Germany WGK: 1
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16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited

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