



Aqua Chemical Supply, Inc.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Oxone® Monopersulfate compound
Product Use : Cleaning agent, Oxidizing agent

Manufacturer/Supplier/Distributor:

W.W. Adcock, P.O. Box 492, Huntingdon Valley, PA 19006

Emergency telephone number: For emergency assistance involving chemicals call
CHEMTREC day or night at: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin: Severe skin irritation Effects of skin contacts may include:, Erythema, Burns, Cracking of skin.

Eyes: Corrosive, may cause permanent eye injury if not promptly treated.

Inhalation: May cause irritation of respiratory tract. Nose bleeding, coughing discomfort.

Ingestion: Prolonged contact may cause: inflammation of the stomach (gastritis) Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	86 - 96 %
Dipotassium peroxodisulphate	7727-21-1	0 - 5 %
Tetra[carbonato(2-)]dihydroxypentamagnesium	7760-50-1	1 - 2 %

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

Skin contact: If on skin, rinse well with water. Take off contaminated clothing and shoes immediately. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water and seek medical advice.

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.

Ingestion: Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash point: does not flash

Fire and Explosion Hazard: The product itself does not burn.

Hazardous decomposition products: Oxygen, Sulfur dioxide, Sulfur trioxide

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Carbon dioxide (CO2)

Firefighting Instructions: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel): Evacuate personnel to safe areas. Use personal protective equipment.

Spill Cleanup: Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

Accidental Release Measures: Try to prevent the material from entering drains or water courses.
Dispose of in accordance with local regulations

7. HANDLING AND STORAGE

Handling (Personnel): Use only in well-ventilated areas. Do not breathe dust. Avoid dust formation in confined areas. Avoid contact with skin and eyes. Keep away from heat and flame. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from contamination. Store in original container.

Keep away from: Combustible material Never allow product to get in contact with water during storage.

Stable under recommended storage conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Ensure adequate ventilation. Personal protective equipment

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear a positive-pressure supplied-air respirator.

Hand protection: Material: Impervious gloves

Eye protection: Wear safety glasses or overall chemical splash goggles.

Skin and body protection: Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots. Remove and wash contaminated clothing before re-use.

Protective measures: When using do not eat or drink. Do not breathe dust.

Exposure Guidelines

Exposure Limit Values

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

AEL * (DUPONT) 1 mg/m³ 8 & 12 hr. TWA Total dust.

Dipotassium peroxodisulphate

TLV (ACGIH) 0.1 mg/m³ TWA as persulfate

Potassium sulfate

AEL * (DUPONT) 10 mg/m³ 8 hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid form, granular
Color	: white
Odor	: none
pH	: 2.1 at 30 g/l 20 °C (68 °F)
Melting point	: Decomposes before melting.
Boiling point	: not applicable
Oxidizing	: The product is not oxidizing.
Vapour Pressure	: < 0.0000017 hPa
Specific gravity	: 2.35 at 20 °C (68 °F)
Bulk density	: 1,100 - 1,400 kg/m ³
Water solubility	: 297 - 357 g/l at 22 °C (72 °F)

10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions.

Conditions to avoid : Temperature > 50 °C (> 122 °F) Avoid extreme heat.

Incompatibility : Halogenated compounds Cyanides, Heavy metal salts

Hazardous decomposition : Hazardous decomposition products: Oxygen , Sulfur dioxide, Sulfur trioxide products

11. TOXICOLOGICAL INFORMATION

Oxone® Monopersulfate compound

Inhalation 4 h LC50 : > 5 mg/l , rat

Skin irritation : Causes burns., rabbit

Eye irritation : Severe eye irritation, rabbit

Sensitisation : Did not cause sensitization on laboratory animals., guinea pig

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Dermal LD50 : > 2,000 mg/kg , rat

Oral LD50 : 500 mg/kg , rat

Repeated dose toxicity : Inhalation rat

Reversible, corneal damage

Oral rat

Gastrointestinal effects

Mutagenicity : Did not cause genetic damage in animals.

Tests on mammalian cell cultures showed mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Overall weight of evidence indicates that the substance is not mutagenic.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Dipotassium peroxodisulphate

Dermal LD50 : > 10,000 mg/kg , rabbit

Oral LD50 : 802 mg/kg , rat

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

96 h LC50 : Cyprinodon variegatus (sheepshead minnow) 1.09 mg/l

72 h ErC50 : Algae > 1 mg/l

48 h EC50 : Daphnia 3.5 mg/l

Dipotassium peroxodisulphate

48 h LC50 : Daphnia magna (Water flea) 92 mg/l

Environmental Fate

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Biodegradability : Readily biodegradable.

Bioaccumulation : Bioaccumulation is unlikely.

13. DISPOSAL CONSIDERATION

Waste Disposal : Dispose of in accordance with local regulations.
 Environmental Hazards : If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORT INFORMATION

UN number : 3260
 Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.
 Class : 8
 Packing group : II
 Labelling No. : 8
 IATA_C
 UN number : 3260
 Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate Compound)
 Class : 8
 Packing group : II
 Labelling No. : 8
 IMDG
 UN number : 3260
 Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate Compound)
 Class : 8
 Packing group : II
 Labelling No. : 8

15. REGULATORY INFORMATION

TSCA Status : On the inventory, or in compliance with the inventory
 DSL Status : On the inventory, or in compliance with the inventory
 WHMIS Classification : C - Oxidizing Material
 D2B - Toxic Material Causing Other Toxic Effects
 E - Corrosive Material
 Moderate eye irritant, Moderate skin irritant
 PCP Registration # : 23137
 Remarks : This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

16. OTHER INFORMATION

Notice

Aqua Chemical Supply, Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

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