

**Oxone® Monopersulfate compound**

Version 2.0

Revision Date 05/11/2011

Ref. 130000000134

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Oxone® Monopersulfate compound
MSDS Number	:	130000000134
Product Use	:	Cleaning agent, Oxidizing agent
Manufacturer	:	E.I. du Pont Canada Company P.O. Box 2200, Streetsville Mississauga, ON L5M 2H3 Canada
Product Information	:	1-800-387-2122
Medical Emergency	:	1-800-441-3637 (24 hours)
Other information	:	professional use

SECTION 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.

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SECTION 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 %

SECTION 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.

SECTION 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

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- 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- 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.

SECTION 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.

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SECTION 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 coverall 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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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)

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

SECTION 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

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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.

SECTION 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)

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Biodegradability : Readily biodegradable.

Bioaccumulation : Bioaccumulation is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Dispose of in accordance with local regulations.

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

SECTION 14. TRANSPORT INFORMATION

TDG_ROAD 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

SECTION 15. REGULATORY INFORMATION

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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.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 05/11/2011

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