Oxone[®] PS-16 Monopersulfate compound

Version 2.0

Revision Date 11/11/2014

Ref. 13000026038

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Product Use	:	Oxone [®] PS-16 Monopersulfate compound Cleaning agent, Oxidizing agent, For industrial use only.
Restrictions on use Manufacturer/Supplier	:	Do not use product for anything outside of the above specified uses DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)
Other information	:	See Section 15: Regulatory Information for active substance guidance. professional use

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category				
Acute toxicity (Oral)	Category 4			
Skin corrosion	Category 1B			
Serious eye damage/eye irritation	Category 1			



Safety Data Sheet Oxone[®] PS-16 Monopersulfate compound Version 2.0 Revision Date 11/11/2014 Ref. 13000026038 Label content Pictogram Signal word : Danger : Harmful if swallowed. Hazardous warnings Causes severe skin burns and eye damage. Hazardous prevention : Do not breathe dust or mist. Wash skin thoroughly after handling. measures Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 11.92 %

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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

General advice	: When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	: Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
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.
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.
Most important symptoms/effects, acute and delayed	: No applicable data available.
Protection of first-aiders Notes to physician	No applicable data available.No applicable data available.
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SECTION 5. FIREFIGHTING MEAS	URES
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: Carbon dioxide (CO2)
Specific hazards	: The product itself does not burn. Hazardous decomposition products Oxygen, Sulphur dioxide, Sulfur trioxide
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Further information	: No applicable data available.
SECTION 6. ACCIDENTAL RELEA	SE MEASURES
	MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. ROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel)	: Evacuate personnel to safe areas. Use personal protective equipment.
Environmental precautions	: Try to prevent the material from entering drains or water courses.
Spill Cleanup	: Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.
Accidental Release Measures	: Dispose of in accordance with local regulations.
SECTION 7. HANDLING AND STO Handling (Personnel)	 KAGE 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.
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Handling (Physical Aspects) Dust explosion class Storage	 Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. No applicable data available. No applicable data available. Keep 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. 		
Storage period	: No applicable data available.		
Storage temperature	: No applicable data available.		

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.		
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(perox AEL *	monosulphate) bis(sulphate) (DUPONT) 1 mg/m3 15 minute TWA		
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Dipotassium peroxodisulp TLV	ohate (ACGIH)	0.1 mg/m3	TWA as persulfate	
Potassium sulfate AEL *	(DUPONT)	10 mg/m3	8 hr. TWA	
lower than the AEL are in e SECTION 9. PHYSICAL AND CH Appearance (Physical state, fo	IEMICAL PROPE	RTIES	ce.	
Form Color Odor Odor threshold	: Solid form, : white : none : No applicat	-		
Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range	 white none No applicat 2.1 at 30 g/ Melting poin Decompose Boiling poin Not applica 	ble data available. I 20 °C (68 °F) ht es before melting. t ble		
Color Odor Odor threshold pH Melting point/freezing point	 white none No applicate 2.1 at 30 g/ Melting poin Decompose Boiling poin Not applica does not flate No applicate 	ole data available. I 20 °C (68 °F) nt es before melting. It ble ash ole data available. ct itself does not bu	rn, but it is slightly oxidising (active oxygen	
Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate	 white none No applicate 2.1 at 30 g/ Melting poin Decompose Boiling poin Not applicate does not flate No applicate The produce 	ole data available. I 20 °C (68 °F) nt es before melting. It ble ash ole data available. ct itself does not bu	m, but it is slightly oxidising (active oxygen	
Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate	 white none No applicate 2.1 at 30 g/ Melting poin Decompose Boiling poin Not applicate does not flate The produce The produce 	ole data available. I 20 °C (68 °F) nt es before melting. it ble ash ole data available. ct itself does not bu . 2%).	rn, but it is slightly oxidising (active oxygen	
Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas)	 white none No applicate 2.1 at 30 g/ Melting poind Decompose Boiling poind Not applicate does not flate The product The product No applicate No applicate 	ole data available. I 20 °C (68 °F) nt es before melting. it ble ash ole data available. ct itself does not bu . 2%). ct is not flammable.	m, but it is slightly oxidising (active oxygen	
Color Odor Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Upper explosion limit	 white none No applicate 2.1 at 30 g/ Melting poind Decompose Boiling poind Not applicate does not flate The product The product The product No applicate No applicate 	ole data available. I 20 °C (68 °F) nt es before melting. It ble ash ole data available. ct itself does not bu 2%). ct is not flammable. ble data available.	m, but it is slightly oxidising (active oxygen	

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Vapor pressure Vapour density	: < 0.0000017 hPa : No applicable data available.
Density	: No applicable data available.
Specific gravity (Relative	: 2.35 at 20 °C (68 °F)
density) Bulk density Water solubility Solubility(ies)	 1,100 - 1,400 kg/m3 297 - 357 g/l at 22 °C (72 °F) No applicable data available.
Partition coefficient: n- octanol/water	: No applicable data available.
Ignition temperature Auto-ignition temperature	no data availableNo applicable data available.
Decomposition temperature	: No applicable data available.
Viscosity	: No applicable data available.
Oxidising Substance	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: No applicable data available.	
Conditions to avoid	: Temperature > 50 °C (> 122 °F) Avoid extreme heat.	
Incompatible materials	: Halogenated compounds Cyanides, Heavy metal salts	

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

SECTION 11. TOXICOLOGICAL INFORMATION

Oxone [®] PS	6-16 Monopersulfate compound Inhalation 4 h LC50	ł :	> 5 mg/l , Rat
	Skin irritation	:	Causes burns., Rabbit
	Eye irritation	:	Severe eye irritation, Rabbit
	Sensitisation	:	Did not cause sensitisation on laboratory animals., Guinea pig
			May cause sensitisation of susceptible persons by skin contact or by inhalation of dust.
Pentanotas	sium bis(peroxymonosulphate)	his	(sulnhate)
i chiapotas	Dermal LD50	:	> 2,000 mg/kg, Rat
	Oral LD50	:	500 mg/kg , Rat
	Mutagenicity	:	Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
	Teratogenicity	:	Animal testing showed no developmental toxicity.
Dipotassiur	n peroxodisulphate		
Dipotacciai	Dermal LD50	:	> 10,000 mg/kg , Rabbit
	Oral LD50	:	1,130 mg/kg , Rat
	Repeated dose toxicity	:	Oral Rat
			NOAEL: 131.5 mg/kgMethod: OECD Test Guideline 407 No toxicologically significant effects were found.
	Carcinogenicity	:	Not classifiable as a human carcinogen.
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	Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.
Mutagenicity :	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Information given is based on data obtained from similar substances.
Reproductive toxicity :	No toxicity to reproduction Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances.
Teratogenicity :	Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.
Tetra[carbonato(2-)]dihydroxypentamagnesiu Oral LD50 :	m >2,000 mg/kg , Rat Information given is based on data obtained from similar substances.
Repeated dose toxicity :	Oral Rat - 90 d NOAEL: 1,531 mg/kgMethod: OECD Test Guideline 408 No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
Carcinogenicity :	Not classifiable as a human carcinogen. Information given is based on data obtained from similar substances. Animal testing did not show any carcinogenic effects.
Mutagenicity :	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals. Information given is based on data obtained from similar substances.
Reproductive toxicity :	No toxicity to reproduction Information given is based on data obtained from similar substances. Animal testing showed no reproductive toxicity.
Teratogenicity :	Information given is based on data obtained from similar substances. Animal testing showed no developmental toxicity.
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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.

Aquatic Toxicity		
Pentapotassium bis(peroxymonosul) 96 h LC50	phate) bis :	(sulphate) Cyprinodon variegatus (sheepshead minnow) 1.09 mg/L Directive 67/548/EEC, Annex V, C.1.
96 h ErC50	:	Selenastrum capricornutum (green algae) > 1 mg/I OECD Test Guideline 201
72 h NOEC	:	Selenastrum capricornutum (green algae) 0.5 mg/l
48 h EC50	:	Daphnia magna (Water flea) 3.5 mg/l OECD Test Guideline 202
37 d	:	NOEC Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l
28 d	:	NOEC Americamysis bahia (mysid shrimp) 0.267 mg/l
Dipotassium peroxodisulphate 96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 76.3 mg/I US EPA Test Guideline OPP 72-1 Information given is based on data obtained from similar substances.
72 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 83.7 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
72 h NOEC	:	Pseudokirchneriella subcapitata (green algae) 39.2 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
48 h EC50	:	Daphnia magna (Water flea) 120 mg/I US EPA Test Guideline OPP 72-2 Information given is based on data obtained from similar substances.
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Oxone[®] PS-16 Monopersulfate compound Version 2.0 Revision Date 11/11/2014 Ref. 13000026038 Tetra[carbonato(2-)]dihydroxypentamagnesium 96 h LC50 Pimephales promelas (fathead minnow) 2,120 mg/l : Information given is based on data obtained from similar substances. 72 h EC50 Desmodesmus subspicatus (green algae) > 100 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances. Desmodesmus subspicatus (green algae) 100 mg/l OECD Test 72 h NOEC : Guideline 201 Information given is based on data obtained from similar substances. 48 h EC50 Daphnia magna (Water flea) 140 mg/l : Information given is based on data obtained from similar substances. Physico-chemical hydrolyses : removability **Environmental Fate** Dipotassium peroxodisulphate Biodegradability Readily biodegradable. Tetra[carbonato(2-)]dihydroxypentamagnesium Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances. SECTION 13. DISPOSAL CONSIDERATIONS Waste disposal methods -: Dispose of in accordance with local regulations. Product Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations. SECTION 14. TRANSPORT INFORMATION DOT **UN** number : 3260 11/13

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IATA_C	Proper shipping name Class Packing group Labelling No. UN number	 Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate Compound) 8 II 8 3260
IMDG	Proper shipping name Class Packing group Labelling No. UN number	 Corrosive solid, acidic, inorganic, n.o.s. (Monopersulfate Compound,) 8 II 8 3260
	Proper shipping name Class Packing group Labelling No.	 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Monopersulfate Compound,) 8 II 8

SECTION 15. REGULATORY INFORMATION

TSCA Other regulations	 On the inventory, or in compliance with the inventory Active Ingredient in this composition is POTASSIUM PEROXYMONOSULFATE, CAS. No. 10058-23-8, Concentration: 43-47% (Typical 45%) Active ingredient may also be described by the synonym POTASSIUM MONOPERSULFATE.
SARA 313 Regulated Chemical(s)	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
PA Right to Know Regulated Chemical(s)	 Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Dipotassium peroxodisulphate
NJ Right to Know Regulated Chemical(s)	 Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Dipotassium peroxodisulphate,



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Title III hazard classification	Potassium hydrogensulphate : Acute Health Hazard: Yes Chronic Health Hazard: No Fire: No Reactivity/Physical hazard: No		
California Prop. 65	 Pressure: No Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known 		
SECTION 16. OTHER INFORM	MATION		
The DuPont Oval Logo, D de Nemours and Compan	uPont [™] , and The miracles of science [™] are trademarks or registered trademarks of E.I. du Pont y or its affiliates.		
Revision Date	: 11/11/2014		
Contact person	: MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 19898, (800) 441-7515		
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief date of its publication. The information given is designed only as a guidance for safe handling, use, processing, s transportation, disposal and release and is not to be considered a warranty or quality specification. The information with a relates only to the specific material designated and may not be valid for such material used in combination with a other materials or in any process, unless specified in the text.			
Significant change from previous version is denoted with a double bar.			
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