SECTION 1

MATERIAL NAME / IDENTIFIER

OXYOUT	WHMIS: E
Manufacturer's Name: Street Address: City: Postal Code:	CAPO INDUSTRIES LTD 1200 CORPORATE DRIVE BURLINGTON, ONTARIO L7L 5R6
Emergency Telephone:	Canutec (613) 996-6666 (Collect)
Chemical Name:	Oxone
Chemical Family:	Monopersulphate
Chemical Formula:	2KHSO ₅ KHSO ₄ K ₂ SO ₄
Trade Name & Synonyms:	Potassium Monopersulphate
Molecular Weight:	Not Applicable
Material Use:	Pool Water Treatment Chemical

SECTION 2

HAZARDS IDENTIFICATION

GHS classification:Acute toxicity, Oral, Category 4Skin corrosion/irritation, Category 1BSerious eye damage/eye irritation, Category 1

Symbol(s)



 Signal Word
 Danger

 Hazard statements:
 H302 Harmful if swallowed.

 H314 Causes severe skin burns and eye damage.

Precautionary statements: P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Pentapotassium bis(peroxymonosulphate)		
bis(sulphate)	70693-62-8	60 - 100
Dipotassium peroxodisulphate	7727-21-1	1 - 5
Tetra(carbonato(2-))dihydroxypentamagnesium	7760-50-1	0.5 – 1.5

FIRST AID MEASURES

Inhalation:Remove person to fresh air. Give artificial respiration if required. Seek medical attention.Skin Contact:Wash thoroughly with soap and water. Flush with water for 15 minutes.Eye Contact:Flush eyes with plenty of water for 15 minutes. Seek medical attentionIngestion:Do not induce vomiting. Drink large quantities of water and contact a physician.Note to physicians: None

SECTION 5	FIRE – FIGHTING MEASURES

Unusual Fire or Explosion Hazards:NoneSensitivity to Mechanical Impact:NoneRate of Burning:NoneExplosive Power:NoneSensitivity to Static Discharge:None	Hazardous Combustion Products:	Oxygen, Sulphur dioxide, and Sulphur trioxide.
Rate of Burning:NoneExplosive Power:None	Unusual Fire or Explosion Hazards:	None
Explosive Power: None	Sensitivity to Mechanical Impact:	None
•	Rate of Burning:	None
Sensitivity to Static Discharge: None	Explosive Power:	None
	Sensitivity to Static Discharge:	None

SECTION 4

Fire Extinguishing Media:	Use media suitable to extinguish source of fire.
Instructions to the Fire Fighters:	Wear self-contained breathing apparatus and protective suit.
Fire Fighting Protective Equipment:	See above

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure:	Sweep up and collect in a metal container. Flush residue with water. Large quantities
	should be neutralized with soda ash.

SECTION 7	HANDLING AND STORAGE				
HANDLING					
Handling Practices:	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly				
	after handling.				
Ventilation Requirements:	Use in a well ventilated area.				
Other Precautions:	Keep away from heat and flame.				
STORAGE					
Ventilation Requirements:	Store in a cool, dry area.				
Storage Requirements:	Do not mix directly with other chemicals. Do not store with combustible materials.				

Novor allow	nroduct to	act in	contact with	wotor	during	atorogo
Never allow	product to g	yerm	contact with	water	uunny	siorage.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS				
Engineering Controls:	Local exhaust ventilation.			
PERSONAL PROTECTIVE EQUIP	PMENT			
Skin (Specify):	Latex or rubber gloves if skin contact is likely.			
Eye (Specify):	Safety glasses/goggles if eye contact is likely.			
Respiratory (Specify):	NIOSH/MSHA air purifying respirator if prolonged use in non-ventilated area is			
	Unavoidable.			
Other (Specify):	Impervious clothing is contact is likely. Eye wash stations are close to product use.			

SECTION 9

PHYSICAL DATA FOR MATERIAL

Physical State:	Gas	Liqu	ıid		Solid	X
Odour & Appearance:	White g	ranular, opaq	ue, odo	ourles	S	_
Odour Threshold (ppm):	Not app	licable				
Flammability:		Yes	Ν	o <u>)</u>	<u>x</u>	
If Yes, Under Which Conditions?:						
Auto Ignition Temperature (Celsius)	:	Not applica	able			
Upper Explosion Limit (% By Volume	e):	Not applica	able			
Lower Explosion Limit (% By Volume	e):	Not applica	able			
Decomposition Temp (°C)		Not applica	able			
Specific Gravity:		1.532				
Viscosity:		Not applica	able			
Vapour Pressure (mm):		Not applica	able			
Vapour Density (Air-1):		Not applica	able			
Flashpoint (°C)		Not applica	ble			
Evaporation Rate		Not applica	ble			
Boiling Point (°C):		Not applica	ble			
Freezing Point (°C):		Decompose	es			
Solubility In Water (20°C):		25.6% @ 2	0°C			
% Volatile (By Weight)		Not applica	ble			
PH:		2.8 – 4.0 (1	% solut	tion)		
Coefficient Of Water/Oil Distribution	:	Not applica	ble			
SECTION 10	STA	BILITY AN	D REA	CTI	/ITY	
Chemical Stability:		Yes	<u>x</u>	No)	
If No, Under Which Conditions?:						
Incompatibility To Other Substances	5:	Yes	<u>X</u>	No)	
If So, Which Ones:		This produ	ict is an	oxid	izer. When mi	ixed with halides (chlorine,
		bromine) o	or comp	ound	s containing h	nalides, it will release the
		respective	haloge	n gas	s. Examples: I	Mixture of this product and
		salt will em	nit chlor	ine g	as. Mixture wi	th cyanides can release hydrogen
		cyanide ga	as. Heav	vy me	etal salts such	as cobalt, nickel and copper
		cause the	evolutio	on of	oxygen.	
Conditions to Avoid:		Avoid extre	eme hea	at. Te	emperature >	50°C (> 122°F)
Hazardous Decomposition Products	:	Oxygen, S	ulphur o	dioxid	de and Sulphu	ır trioxide.

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: May cause irritation of respiratory tract.

Skin Contact: Severe skin irritation and burns.

Eye Contact: Corrosive, may cause permanent eye injury.

Ingestion: Harmful if swallowed.

CHRONIC HEALTH EFFECTS None known

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): 500 mg/kg, Oral (Rat), > 2000 mg/kg, Dermal (Rat).

Dipotassium peroxodisulphate: 1130 mg/kg, Oral (Rat), > 10000 mg/kg, Dermal (Rabbit)

Tetra(carbonato(2-))dihydroxypentamagnesium: >2000 mg/kg, Oral (Rat).

LC 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): > 5 mg/l, Inhalation 4h (Rat)

Dipotassium peroxodisulphate: >10.7 mg/l, Inhalation 4h (Rat)

Exposure (Limits): Pentapotassium bis(peroxymonosulphate) bis(sulphate): No data available

Dipotassium peroxodisulphate: TLV (ACGIH) 0.1mg/m3, TWA as persulfate

Irritancy of Material Skin, eye, nose and throat.

Sensitization of Material None known

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:

AQUATIC TOXICITY

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

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

Selenastrum capricornutum (green algae) > 1 mg/l: 96 h ErC50

Selenastrum capricornutum (green algae) 0.5 mg/l: 72 h NOEC

Daphnia 3.5 mg/l: 48 h EC50

Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l: 37 d NOEC

Americamysis bahia (mysid shrimp) 0.267 mg/l: 28 d NOEC

Dipotassium peroxodisulphate:

Oncorhynchus mykiss (rainbow trout) 76.3 mg/l: 96 h LC50 Pseudokirchneriella subcapitata (green algae) 83.7 mg/l: 72 h EbC50 Pseudokirchneriella subcapitata (green algae) 39.2 mg/l: 72 h NOEC Daphnia magna (water flea) 120 mg/l: 48 h EC50

ENVIRONMENTAL FATE

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability: Readily biodegradable.

Bioaccumulation: Not applicable

Mobility in Soil: Not applicable

SECTION 13	DISPOSAL CONSIDERATIONS
Wests Dispessi	Dispass metarial in appardance with foderal, provincial and local government
Waste Disposal:	Dispose material in accordance with federal, provincial and local government
	regulations.
Safe Handling of Residues:	Flush residue with water.
Disposal of Packaging:	Dispose packaging in accordance with federal, provincial and local government

regulations.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Corrosive Solid Acidic - Inorganic N.O.S. (Monopersulphate Compound)

Class:8Packing group:IIUN number:3260Limited Quantity is 1kg and under.

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Corrosive Solid Acidic - Inorganic N.O.S. (Monopersulphate Compound)

Class:	8
Packing group:	П
UN number:	3260
IATA_C	
Proper shipping name:	Corrosive Solid Acidic – Inorganic N.O.S. (Monopersulphate Compound)
Class:	8

Packing group: II UN number: 3260

IMDG

Proper shipping name: Corrosive Solid Acidic - Inorganic N.O.S. (Monopersulphate Compound)

Class: 8 Packing group: II UN number: 3260

SECTION 15

REGULATORY INFORMATION

CANADA

WHMIS: E

USA

TSCA: On the inventory, or in compliance with the inventory.

SARA 313 Regulated Chemicals: Sara 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

California Prop. 65: Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known.

NJ Right to Know Regulated Chemical(s): Substances on the New Jersey Workplace Hazardous Substances List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Dipotassium peroxodisulphate.

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.

OTHER INFORMATION

Prepared By (Group, Department, Etc.):

Quality Control

January 1, 1996

December 1, 2016

Telephone:

(905) 332-6626

Preparation Date: Date Revised: Additional Notes Or References:

SECTION 16

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.