SECTION 1 MATERIAL NAME / IDENTIFIER

Eclipse3 Emerge WHMIS: D2B, E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO

Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Oxone

Chemical Family: Monopersulphate

Chemical Formula: 2KHSO5 KHSO4 K2SO4

Trade Name & Synonyms: Potassium Monopersulphate

Molecular Weight: Not Applicable

Material Use: Pool Water Treatment Chemical

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: H314, Skin corrosion/irritation, Category 1B

H318, Serious eye damage/eye irritation, Category 1

H335, Specific target organ toxicity, single exposure, respiratory tract irritation, Cat. 3

H402, Harmful to aquatic life, Category 3

Symbol(s)



Signal Word Danger

Hazard statements: Causes severe skin burns and eye damage. May cause respiratory irritation, and harmful to aquatic

Precautionary statements: Wear gloves and safety glasses when handling material. Wash hands thoroughly after using.

Do not get in eyes. Use in well ventilated area. Do not dispose into aquatic life.

HMIS: 3 Health, 0 Fire, 1 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

IngredientCAS#% ConcentrationPentapotassium bis(peroxymonosulphate)5bis(sulphate)70693-62-886 - 96Dipotassium peroxodisulphate7727-21-10 - 5Tetra (carbonato (2-)) dihydroxypentamagnesium7760-50-11 - 2

SECTION 4 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 attention

Ingestion: Drink large quantities of water and contact a physician.

Note to physicians: None

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products: Oxygen, Sulphur dioxide, and Sulphur trioxide.

Unusual Fire or Explosion Hazards: None
Sensitivity to Mechanical Impact: None
Rate of Burning: None
Explosive Power: None
Sensitivity to Static Discharge: None

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.

Never allow product to get in contact with water during storage.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

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 Liquid Solid X

Odour & Appearance: White granular, opaque, odourless

Odour Threshold (ppm): Not applicable

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius):

Upper Explosion Limit (% By Volume):

Not applicable

1.1 – 1.4

Viscosity:Not applicableVapour Pressure (mm):Not applicableVapour Density (Air-1):Not applicable

Flashpoint (°C) Not applicable **Evaporation Rate** Not applicable **Boiling Point (°C):** Not applicable Freezing Point (°C): Decomposes 25.6% @ 20°C Solubility In Water (20°C): % Volatile (By Weight) Not applicable PH: 2.30 (1% solution) Coefficient Of Water/Oil Distribution: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Yes \underline{X} No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: This product is an oxidizer. When mixed with halides (chlorine,

bromine) or compounds containing halides, it will release the respective halogen gas. Examples: Mixture of this product and

salt will emit chlorine gas. Mixture with cyanides can release hydrogen

cyanide gas. Heavy metal salts such as cobalt, nickel and copper

cause the evolution of oxygen.

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

Hazardous Decomposition Products: Oxygen, Sulphur dioxide and Sulphur trioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Will cause irritation of mucosal membrane and respiratory passages.

Skin Contact: Severe skin irritation and burns.

Eye Contact: Corrosive, may cause permanent eye injury.

Ingestion: Prolonged contact may cause gastritis. Gastritis possibility progressing to necrosis or hemorrhage.

CHRONIC HEALTH EFFECTS None known

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes)

Pentapotassium bis(peroxymonosulphate) bis(sulphate): Oral Rat – 500 mg/kg,

Dermal Rat - > 2000 mg/kg.

Dipotassium peroxodisulphate: Oral Rat – 1130 mg/kg.

Dermal Rabbit - > 10000 mg/kg

LC 50 of Material (Specify Species and Routes) 4 h inhalation Rat - > 5 mg/kg

Exposure (Limits): OSHA PEL particulates not otherwise classified: 15 mg/m3, 8 h, TWA total dust

5 mg/m3, 8 h, TWA respirable dust.

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: 72 h ErC50 Selenastrum capricornutum (green algae) 0.5 mg/l: NOEC

Daphnia 3.5 mg/l: 48 h EC50

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

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

Dipotassium peroxodisulphate: Information given is based on data obtained from similar substances.

Oncorhynchus mykiss (rainbow trout) 76.3 mg/l US EPA Test Guideline OPP 72-1: 96 h LC50

Pseudokirchneriella subcapitata (green algae) 83.7 mg/l OECD Test Guideline 201: 72 h EbC50 Pseudokirchneriella subcapitata (green algae) 39.2 mg/l OECD Test Guideline 201: 72 h NOEC

Daphnia magna (water flea) 120 mg/l US EPA Test Guideline OPP 72-2: 48 h EC50

ENVIRONMENTAL FATE

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

Biodegradability: Readily biodegradable.

Bioaccumulation: Bioaccumulation is unlikely.

Mobility in Soil: Not applicable

Dipotassium peroxodisulphate:

Biodegradability: Readily biodegradable.

Bioaccumulation: Not applicable Mobility in Soil: Not applicable

SECTION 13

DISPOSAL CONSIDERATIONS

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: 8
Packing group: II

UN number: 3260

Limited 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: II

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: D2B, 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.

Title III hazard classification: Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

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): Potassium hydrogensulphate.

SECTION 16 OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

Preparation Date: May 19, 2015 Date Revised: June 1, 2022

Additional Notes Or References:

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