

Material Safety Data

SECTION 1. Product and Company Identification

Product Name: Aquamate Oxy Plus, Maintain Pool Pro Oxy Plus, Private Brand Oxy Plus, Non Chlorine Oxidizing Shock, Shock Oxidizer, Oxidizing Shock

Product Id: 3100

Date: 08-05-2013

Synonyms: Oxone® Monopersulfate Compound PS-16, Non-Chlorine Oxidizing Shock / Potassium Monopersulfate Edition: 4

Manufactured By:

DuPont

1007 Market Street

Wilmington, DE 19898

Packaged By: Baleco Int'l Inc

PO Box 11331

Cincinnati, OH 45211

Product Information: 1-800-441-7515

Medical Emergency: 1-800-441-3637

Transportation Emergency: Call CHEMTREC: 1-800-424-9300

SECTION 2. Hazards Identification

Potential Health Effects:

Skin: Severe skin irritation effects of skin contact 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.

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 reuse.

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. Firefighting Measures

Flammability 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.

SECTION 6 Accidental Release Measures

NOTE: Review Fire Fighting Measures and Handling(Personnel) sections before proceeding with cleanup. 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 practices.

Storage: Keep in a cool, dry and well-ventilated place. Protect from contamination. Store in original container. Keep away from: combustible materials. Never allow product to get in contact with water during storage. Stable under recommended storage conditions.

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 reuse.

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

Exposure Guidelines:

Exposure Limit Values			
Chemical Name	Limit Authority	Limit	Method
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	AEL* (DuPont)	1 mg/m ³	15 minute TWA
Dipotassium peroxydisulphate	TLV (ACGIH)	0.1mg/3	Twa as persulfate
Potassium sulfate	AEL*(DuPont)	10 mg/m ³	8 hr TWA

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

SECTION 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.

Oxidising Substance: This 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/m³.

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: Oxygen, sulfur dioxide, sulfur trioxide.

SECTION 11. Toxicological Information

Oxone Monopersulfate Compound PS-16

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

Skin Irritation: Causes burns, rabbit.

Eye Irritation: Severe eye irritation, rabbit.

Sensitization: Did not cause sensitization on laboratory animals, guinea pigs. May cause sensitization of susceptible persons by skin contact or by inhalation of dust.

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Dermal LD50: > 2,000 mg/kg, rat. Adverse body weight effects.

Oral LD50: 500 mg/kg, rat. Gastrointestinal effects.

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: 1,130 mg/kg, rat.

Repeated Dose Toxicity: Oral, rat. No toxicological significant effects were found.

Carcinogenicity: 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: 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.

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

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

48 h EC50: Daphnia 3.5 mg/l

NOEC Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l

NOEC Americamysis bahia (mysid shrimp) 0.267 mg/l

Dipotassium Peroxodisulphate

96 h LC50: Oncorhynchus mykiss (rainbow trout) 76.3 mg/l 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 OESC 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/l US EPA Test Guideline OPP 72.2. Information given is based on data obtained from similar substances.

Environmental Fate

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Biodegradability: Readily biodegradable.

Bioaccumulation: Bioaccumulation is unlikely.

Dipotassium Peroxodisulphate

Biodegradability: Readily biodegradable.

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

DOT:

UN Number: 3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Monopersulphate Compound)

Class: 8

Packing Group: II

Labeling No: 8

SECTION 15. Regulatory Information

Other Regulations: 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.

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 (De Minimis) 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 Chemicals: Potassium hydrogensulphate.

SECTION 16. Other Information

HMIS

Health: 3

Flammability: 0

Reactivity/Physical Hazard: 1

PPE: Personal Protection rating to be supplied by user depending on use conditions.

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