



Material Safety Data Sheet

SECTION 1. Product and Company Identification

Product Name: Maintain for Spas & Private Brand Spa Oxy Plus, Non Chlorine Oxidizing Shock for Spas
Product Id: 3100
Date: 01-18-2012
Synonyms: Oxone® Monopersulfate Compound PS-16, Non-Chlorine Oxidizing Shock / Potassium Monopersulfate
Edition: 3
Manufactured By:
DuPont
1007 Market Street
Wilmington, DE 19898

EMERGENCY PHONE NUMBERS 24-HOUR PRODUCT INFO: 800-441-7515 TRANSPORT INFO: CHEMTREC 1-800-424-9300 MEDICAL EMERGENCY: 800-441-3637

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 this 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	8 & 12 hr twa total dust
Dipotassium peroxydisulphate	Tvl (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.

Melting Point: Decomposes before melting.

Boiling Point: Not Applicable.

Oxidizing: This product is not oxidizing.

Vapour Press: <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.
Oral LD₅₀: 500 mg/kg, rat.
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)

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

DOT:
UN Number: 3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Monopersulphate Compound)
Class: 8
Labeling No: 8
Packing Group: II

SECTION 15. Regulatory Information

TSCA status: 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.

Baleco Disclaimer: The data in this material safety data sheet relates only to the specific material designated herein and does not relate to use in combination with any process. The information set forth herein is furnished free of charge and is based on technical data that, Baleco International Inc. believes to be reliable. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Baleco International Inc. makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Baleco Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or of any other nature, **are made of here under with respect to information or the product to which the information refers.**

Prepared by: MSDS Department Baleco International Inc
P.O. Box 11331
Cincinnati, OH 45211
Phone number: (513) 353-3000