

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION 1**

**Product Name:** Winter Oxy Plus  
**Product ID:** Winter Oxy Plus  
**Date:** 12-15-2014  
**Synonyms:** Oxone® Monopersulfate Compound PS-16, Non-Chlorine Oxidizing Shock / Potassium Monopersulfate  
**Edition:** 1  
**Product Use:** Cleaning agent, oxidizing agent for swimming pools, spas and hot tubs.  
**Manufactured By:** DuPont  
 1007 Market Street  
 Wilmington, DE 19898  
**Product Information:** 1-800-441-7515  
**Medical Emergency:** 1-800-441-3637  
**Transportation Emergency:** Call CHEMTREC: 1-800-424-9300  
**Packaged By:** Baleco International Inc.  
 3200 State Line Rd.  
 North Bend, OH 45052  
 1-877-353-3002

**SECTION 2 HAZARDS IDENTIFICATION 2**

**Product Hazard Category:**  
 Acute Toxicity (Oral): Category 4  
 Skin Corrosion: Category 1B  
 Serious Eye Damage/eye irritation: Category 1

Label Content  
 Pictogram



**Signal Word:** Danger  
**Hazardous Warnings:** Harmful if swallowed.  
 Causes severe skin burns and eye damage.

**Hazardous Prevention Measures:**  
 Do not breathe dust or mist.  
 Wash skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Wear protective gloves/protective clothing/face protection.  
 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 consist of ingredient(s) with unknown acute toxicity: 11.92%

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS 3

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 4

**General Advice:** When symptoms persist or in 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 reuse.

**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:** No applicable data available.

**Notes to Physician:** No applicable data available.

### SECTION 5 FIRE FIGHTING MEASURES 5

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>).

**Specific Hazards:** The product itself does not burn. Hazardous decomposition products Oxygen, Sulfur 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 RELEASE MEASURES 6

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.

**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 STORAGE 7

**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.

**Handling (Physical Aspects):** No applicable data available.

**Dust Explosion Class:** No applicable data available.

**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.  
**Storage Period:** No applicable data available.  
**Storage Temperature:** No applicable data available.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION 8**

**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 overall 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/m3	15 minute TWA
Dipotassium peroxydisulphate	TLV (ACGIH)	0.1mg/3	Twa as persulfate
Potassium sulfate	AEL*(DuPont)	10 mg/m3	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 9**

**Form:** Solid form, granular.  
**Color:** White.  
**Odor:** None.  
**Odor Threshold:** No applicable data available.  
**pH:** 2.1 at 30 g/l 20°C (68°F)  
**Melting Point:** Decomposes before melting.  
**Boiling Point:** Not Applicable.  
**Flash Point:** Does not flash.  
**Evaporation Rate:** No applicable data available.  
**Flammability (solid, gas):** The product itself does not burn, but it is slightly oxidising (active oxygen content ca. 2%).  
**Upper Explosion Limit:** No applicable data available.  
**Lower Explosion Limit:** No applicable data available.  
**Vapour Pressure:** <0.0000017 hPa.  
**Density:** No applicable data available.  
**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).  
**Solubility(ies):** No applicable data available.  
**Partition coefficient:**  
**N-octanol/water:** No applicable data available.  
**Ignition Temperature:** No data available.  
**Auto-ignition temperature:** No applicable data available.  
**Decomposition Temperature:** No applicable data available.  
**Viscosity:** No applicable data available.  
**Oxidising Substance:** This substance or mixture is not classified as oxidizing.

**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.

**Incompatibility:** Halogenated compounds, cyanides, heavy metal salts.

**Hazardous Decomposition Products:** Oxygen, sulfur dioxide, sulfur trioxide.

#### **Oxone®PS-16 Monopersulfate Compound**

**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.

**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.

#### **Dipotassium Peroxodisulphate**

**Dermal LD50:** >10,000 mg/kg, rabbit.

**Oral LD50:** 1,130 mg/kg, rat.

**Repeated Dose Toxicity:** Oral, rat. NOAEL: 131.5 mg/kg Method: OECD Test Guideline 407 No toxicologically significant effects were found.

**Carcinogenicity:** Not classified as a human carcinogen. 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-)]dihydroxypentamagnesium**

**Oral LD50:** >2,000 mg/kg, Rat

**Repeated Dose Toxicity:** Oral. Rat. -90d. NOAEL: 1531 mg/kg Method: OCED 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.

#### **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(peroxymonosulphate) bis(sulphate)**

**96 h LC50:** 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/l 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/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.

**Tetra[carbonato(2-)]dihydroxypentamagnesium**

**96 h LC50:** Pimephales promelas (fathead minnow) 2,120 mg/l. Information given is based on data obtained from a similar substance.

**72 h EC50:** Desmodesmus subspicatus (green algae) > 100 mg/l OECD Test Guideline 201. Information given is based on data obtained from a similar substance.

**72 h NOEC:** Desmodesmus subspicatus (green algae) 100 mg/l OECD Test Guideline 201. Information given is based on data obtained from a similar substance.

**48 h EC50:** Daphnia magna (Water flea) 140 mg/l. Information given is based on data obtained from a similar substance.

**Environmental Fate****Dipotassium Peroxodisulphate**

Biodegradability: Readily biodegradable.

**Tetra[carbonato(2-)]dihydroxypentamagnesium**

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances

**Waste Disposal:** Dispose of in accordance with local regulations.

**Environmental Hazards:** If recycling is not practicable, dispose of in compliance with local regulations.

**DOT:**

**UN Number:** 3260

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

**Class:** 8

**Packing Group:** II

**Labeling No:** 8

**IATA\_C**

**UN Number:** 3260

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

**Class:** 8

**Packing Group:** II

**Labeling No.:** 8

**IMDG:**  
**UN Number:** 3260  
**Proper Shipping Name:** CORRSOIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Monopersulfate Compound)  
**Class:** 8  
**Packing Group:** II  
**Labeling No.:** 8

**SECTION 15 REGULATORY INFORMATION 15**

**TSCA:** On the inventory, or in compliance with the inventory.  
**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.  
**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.  
**PA Right to Know Regulated Chemicals:** Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Dipostassium peroxodisulphate.  
**NJ Right to Know Regulated Chemicals:** Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for substances identified as carcinogens, mutagens or teratogens): Dipostassium peroxodisulphate, Potassium hydrogen sulphate.  
**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.

**SECTION 16 OTHER INFORMATION 16**

**HMIS:**



PPE: Personal Protection rating to be supplied by user depending on use conditions.  
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Prepared By: MSDS/SDS Department with information from the Supplier.  
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End of Safety Data Sheet