

SAFETY DATA SHEET

Date Prepared : 7/1/2008

SDS No. : SeaKlear Chlorine Free Shock Oxidizer

Date Revised : 12/31/2014

Revision No : 7

SeaKlear Chlorine Free Shock Oxidizer

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SeaKlear Chlorine Free Shock Oxidizer

GENERAL USE: Oxidizer

PRODUCT DESCRIPTION: 1303N6RW

DISTRIBUTOR

Halosource, Inc.
1725 220th Street SE, Suite 103
Bothell, WA 98021

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Acute Toxicity (Oral), Category 4
Skin Corrosion, Category 1B
Serious Eye Damage, Category 1
Eye Irritation, Category 1

GHS LABEL



Corrosion



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENT(S)

General:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position 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/physician.
P363: Wash contaminated clothing before reuse.
P405: Store locked up.
P501: Dispose of contents/container in accordance with applicable local and federal regulations.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	86 - 96	70693-62-8
Dipotassium peroxodisulphate	0 - 5	7727-21-1
Magnesium Carbonate (Tetra[carbonato(2-)]dihydroxypentamagnesium	1 - 2	7760-50-1

COMMENTS: Supplier's Acceptable Limits noted in Section 8 is Dupont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits are lower than Dupont's limits, such limits shall take precedence.

4. FIRST AID MEASURES

EYES: Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes. Call a physician immediately.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

INGESTION: DO NOT INDUCE VOMITING. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Product does not flash or burn.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire. Carbon dioxide is not a suitable extinguishing media.

FIRE FIGHTING EQUIPMENT: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products include oxygen, sulfur dioxide, sulfur trioxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up thoroughly. Avoid dust formation. Flush area with low pressure water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid runoff to waterways and sewers.

GENERAL PROCEDURES: Evacuate area. Use PPE.

7. HANDLING AND STORAGE

HANDLING: 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 practice.

STORAGE: Store in a cool, dry, well-ventilated area away from heat sources. Protect from contamination. Store in original container. Keep away from: Combustible material. Never allow product to come in contact with water during storage. Stable under recommended storage conditions.

LOADING TEMPERATURE: Replace the lid on plastic pails when they are not in use to prevent contamination and extend shelf life.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Pentapotassium bis(peroxymonosulfphate) bis(sulfphate)	TWA			[1]	1 [1]
Dipotassium peroxodisulphate	TWA	[2]	0.1 [2]	[3]	10 [3]
Footnotes: 1. 8 & 12 hr. TWA Total Dust. 2. TWA as persulfate. 3. 8 hr. TWA					

ENGINEERING CONTROLS: Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical safety glasses or goggles.

SKIN: Where there is potential for skin contact, wear impervious gloves, apron, pants and jacket.

RESPIRATORY: When concentrations are above exposure limit, use appropriate certified respirators.

OTHER USE PRECAUTIONS: When using, do not eat or drink. Do not breathe dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Mild chlorine.

APPEARANCE: White granular.

pH: 2.1

FLASHPOINT AND METHOD: Will not burn.

FLAMMABLE LIMITS: 0 to 0

VAPOR PRESSURE: <0.0000017 hPa

MELTING POINT: Decomposes before melting.

SOLUBILITY IN WATER: 297 to 357 g/l at 22°C (72°F)

EVAPORATION RATE: Not volatile.

DENSITY: 1100-1400 kg/m³

SPECIFIC GRAVITY: 2.35 at 20°C (68°F)

(VOC): 100.000

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable when handled and stored as indicated.

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CONDITIONS TO AVOID: Temperatures above 50° C (>122° F). Avoid extreme heat.

POSSIBILITY OF HAZARDOUS REACTIONS: Decomposes when heated or dampened, releasing oxygen and heat of decomposition.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen, sulfur dioxide, sulfur trioxide products.

INCOMPATIBLE MATERIALS: Halogenated compounds (bromine, chlorine, iodine), cyanides, heavy metal salts.

11. TOXICOLOGICAL INFORMATION

ACUTE

INHALATION LC₅₀: > 5 mg/L (4 hour)

Notes: In rats.

NOTES: Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Dermal LD50: >2000 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 material 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.

EYE EFFECTS: Severely irritating (rabbit).

SKIN EFFECTS: Causes skin burns (rabbit).

SENSITIZATION: Did not cause sensitization on laboratory animals. May cause sensitization of susceptible persons by skin contact or by inhalation of dust.

12. ECOLOGICAL INFORMATION

COMMENTS:

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

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

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72h ErC50 Algae > 1 mg/l

48h EC50 Daphnia 3.5 mg/l

Environmental Fate

Readily Biodegradable. Bioaccumulation is unlikely.

Dipotassium peroxodisulphate

48h EC50 Daphnia magna (water flea) 120 mg/l

Tetra(carbonato(2-))dihydroxypentamagnesium

96 h LC50 Pimephales promelas (fathead minnow) 2,120 mg/l

48 h EC50 Daphnia magna (water flea) 140 mg/l

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Solid, Acidic, Inorganic, N.O.S. (monopersulfate compound)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 3260

PACKING GROUP: II

LABEL: Corrosive

OTHER SHIPPING INFORMATION: Ground Shipping DOT exception 173.154 - this product qualifies as a Limited Quantity when inner packaging does not exceed 2.2 lbs and outer packaging does not exceed 66 lbs.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not listed.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

313 REPORTABLE INGREDIENTS: No ingredients listed at or above the de minimus level.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CALIFORNIA PROPOSITION 65: There are no chemicals present known to the State of California to cause cancer.

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GENERAL COMMENTS: Active ingredient in this composition is Potassium Peroxymonosulfate, CAS No. 10058-23-8, Concentration: 43-47% (Typical 45%)

16. OTHER INFORMATION

Date Revised: 12/31/2014

REVISION SUMMARY: This SDS replaces the 4/17/2013 SDS. Revised: **Section 2:** CARCINOGENICITY, EMERGENCY OVERVIEW - PHYSICAL APPEARANCE MEDICAL CONDITIONS AGGRAVATED, POTENTIAL HEALTH EFFECTS (SKIN, INHALATION, INGESTION). **Section 4:** INGESTION. **Section 7:** STORAGE. **Section 9:** SPECIFIC GRAVITY. **Section 12:** COMMENTS.

HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

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