

**Product Name:** Serena Spa Oxy Blast  
**Date:** 11/3/21

SECTION 1 **IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(800) 928-7665

**U.S. PERS Emergency Telephone:** 1-800-633-8253  
**Product Name:** **Serena Spa Oxy Blast**  
**Synonyms:** Chlorine Free Shock Oxidizer  
**Chemical Name:** Sodium Peroxydisulfate  
**CAS Number:** 7775-27-1  
**Product Use:** Recreational Water Clarifier

SECTION 2 **HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**  
**DANGER**



**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin corrosion (Category 1)  
Respiratory sensitization (Category 1)  
Skin sensitization (Category 1)  
Serious eye damage (Category 1)

**Hazard Statement(s)**

H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H320: Causes eye irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.

**Precautionary statement(s)**

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing  
P337 + P313: If eye irritation persists: Get medical advice / attention  
P302 + P352: IF ON SKIN: Wash with plenty of water.  
P362: Take off contaminated clothing and wash before reuse.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor  
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P330: Rinse mouth

SECTION 2 **HAZARDS IDENTIFICATION - Continued**

P370 + P378: In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up  
P501: Dispose of contents / container to an approved waste disposal plant

SECTION 3 **COMPOSITION, INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Persulfate	7775-27-1	50%
Inert Ingredients		50%

SECTION 4 **FIRST-AID MEASURES**

**General Advice:** Remove from exposure, lie down. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

**Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids intermittently. Consult a physician. In case of contact, immediately flush eyes with plenty of water. If symptoms persist, call a physician.

**Ingestion:** Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Drink 1 or 2 glasses of water.

SECTION 5 **FIRE FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Water. Cool containers with flooding quantities of water until well after fire is out.

**Special hazards arising from the substance or mixture:** Decomposes under fire conditions to release oxygen that intensifies the fire.

**Advice for Firefighters:** Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use personal protective equipment. Keep off any unprotected persons. Avoid contact with the skin and the eyes. Avoid breathing dust.

**Environmental Precautions:** Knock down dust with water spray. Avoid penetration into waterways, sewers, soil, or groundwater. Local authorities should be advised if significant spillages cannot be contained.

**Methods for Containment:** Vacuum, shovel or pump waste into a drum and label contents for disposal. Avoid dust formation. Store in closed container.

**Methods for Cleaning Up:** Clean up spill area and treat as special waste. Dispose of waste as indicated in Section 13.

SECTION 7 **HANDLING AND STORAGE**

**Handling:** Wear personal protective equipment. Avoid breathing dust. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Do not store near combustible materials. Avoid contamination of opened product. Keep away from food, drink and animal feeding stuffs. Avoid formation and deposition of dust.

**Incompatible Products:** Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials.

SECTION 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Exposure Controls**

**Appropriate Engineering Controls:** Protective engineering solutions should be implemented and in use before person protective equipment is considered.

**Personal Protective Equipment:**

**Eye/Face Protection:** Eye protection recommended. Chemical goggles consistent with EN 166 or equivalent.

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Wear long-sleeved shirt, long pants, socks and shoes

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH / MSHA approved respiratory protection should be worn. Particulate filtering facepiece respirators.

**Hygiene Measures:** Keep away from food, drink and animal feeding stuffs. Do not eat drink or smoke when using this product. Wash hands before breaks and after shifts. Keep work clothes separate, remove contaminated clothing – launder after open handling of product.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	White Granular
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	6.0 (1% Solution)
<b>Melting Point/Freezing Point:</b>	180° C (Decomposes)
<b>Boiling Point and Boiling Range:</b>	Decomposes on heating
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Flammability (solid, gas):</b>	Not Available
<b>Upper/Lower Flammability or Explosive Limits:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	2.59 g/cm <sup>3</sup>
<b>Water Solubility:</b>	42% @ 25°C
<b>Partition Coefficient (n-octanol/water):</b>	Not Available
<b>Auto-ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	> 100°C (assume)
<b>Viscosity:</b>	Not Available
<b>Explosive Properties:</b>	Not Available
<b>Oxidizing Properties:</b>	Oxidizer

SECTION 10 **STABILITY AND REACTIVITY**

**Reactivity:** Strong oxidizer. Oxidizer. Contact with other material may cause a chemical reaction.

**Chemical Stability:** Decomposition can occur on exposure to heat or moisture.

**Possibility of Hazardous Reactions:**

Use of persulfates in chemical reactions requires appropriate precautions and design considerations for pressure and thermal relief.

Decomposing persulfates will evolve large volumes of gas and/or vapor, can accelerate exponentially with heat generation, and create significant and hazardous pressures if mixed with other chemicals.

**Conditions to Avoid:** Excess heat.

**Incompatible Materials:** Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials.

**Hazardous Decomposition Products:** Oxygen which supports combustion; Sulfur Oxides

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Oral LD50 (rat):** 895 mg/kg (Sodium Persulfate 100%)  
**Dermal LD50 (rabbit):** > 10,000 mg/kg (Sodium Persulfate 100%)  
**Inhalation 4-hr LC50 (rat):** >5.1 mg/L (Sodium Persulfate 100%)  
**Skin Irritation:** Minimally irritating.  
**Eye Irritation:** Irritating to eyes.  
**Skin Sensitization:** Sensitizing to skin and respiratory system.  
**Germ Cell Mutagenicity:** Not Available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** This product is not recognized as reprotox by Research Agencies

**Specific Target Organ Toxicity Single Exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity Repeated Exposure:** Not classified

**Subchronic Toxicity Oral (NOAEL) =** 131.5 mg/kg bw (Sodium Persulfate 100%)

**Inhalation (NOAEC) =** 10.3 mg/m<sup>3</sup> (Ammonium Persulfate)

**Dermal:** No data available

**Aspiration Hazard:** Not Available

SECTION 12 **ECOLOGICAL INFORMATION**

<b>Sodium Persulfate</b> 100% (unblended) (7775-27-1)				
Active Ingredient	Duration	Species	Value	Units
Sodium Persulfate	96 h LC50	Rainbow trout	163	mg/L
Sodium Persulfate	48 h LC50	Daphnia magna	133	mg/L
Sodium Persulfate	96 h LC50	Grass shrimp	519	mg/L
Sodium Persulfate	72 h EC50	Algae Selenastrum capricornutum	116	mg/L

**Mobility:** Dissociates into ions

**Persistence and degradability:** Biodegradability does not pertain to inorganic substances.

**Bioaccumulation:** Does not bioaccumulate.

SECTION 13 **DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** Dispose of in accordance with all applicable national environmental laws and regulations.

**Contaminated Packaging:** Dispose of in accordance with local regulations.

SECTION 14 **TRANSPORTATION DATA**

DOT: **UN Number:** N/A  
**UN Proper Shipping Name:** Not Regulated  
**Transport Hazard Class:** Not Regulated  
**Packing Group:** Not Regulated

SECTION 15 **REGULATORY INFORMATION**

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** 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.

**SARA 311 / 312 Hazards:** This product (Sodium Persulfate 100%) has the following hazards that are reportable under the Emergency Planning and Community Right-to-Know rule (EPCRA Tier II):

- Oxidizer
- Acute Toxicity
- Skin corrosion / irritation
- Serious eye damage / eye irritation
- Respiratory / skin sensitization
- Specific Target Organ Toxicity (STOT) – Single Exposure

**California Prop. 65 Components:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 **ADDITIONAL INFORMATION**

HMIS: Health - 1; Flammability - 0; Physical Hazard - 1

Representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 11/3/21  
Phoenix Products Company