



SDS GHS, Fred Hopkins

Section 1 Identification

Product: SPA-OXY2RX RX Clear 4 in 1 Shock
Other Means of Identification: White granular solid with no odor
Recommended Use And Restrictions on Use: Swimming pool and Hot Tub maintenance. Not for use in drinking water treatment or other water treatment applications.
Source: Oxygen Water Products
601 North Congress Avenue, Suite 331
Delray Beach, FL 33445
800-633-8253
Emergency Phone: (800) 633-8253, Professional Emergency Resource Services (PERS)
Account #1823
Office Phone: (877)-246-9943
Website: Oxygenwaterproducts.com

Section 2 Hazard(s) Identification

Emergency Overview: Corrosive. White granular solid with no odor. Product is corrosive to eyes and, skin, and may be corrosive to some metals if wetted. Product dust may be irritating to respiratory system. May evolve irritating gas following contact with liquid acids or other incompatible chemicals.

Classification 29 CFR 1910.1200: Product is hazardous by OSHA criteria.

Corrosive to skin category 1, subcategory 1B
Serious eye damage category 1
Toxic, oral category 4
Hazardous to the aquatic environment, acute category 2 (UN, international GHS criteria)

Signal Word: DANGER
Hazard Statement(s): Causes severe skin burns and eye damage
Harmful if swallowed (toxicity, burns)
Harmful to aquatic life

Pictogram(s):

Corrosion
Toxicity, oral



Precautionary
Statements:

Wear eye protection and rubber gloves.
Do not get in eyes, on skin, or on clothing.
Do not eat, drink, or smoke when using this product.
Do not breathe dusts or mists.
Wash gloves and contaminated surfaces thoroughly after handling.
Avoid release to the environment.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Immediately, call a doctor.

If on skin (or hair): Immediately, take off all contaminated clothing. If possible, brush off dry product gently before rinse. Rinse skin with water. Use safety shower if available and warranted. Call a doctor if burns or irritation occurs. Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.

Keep only in original container.
Store locked up.
Dispose of contents or container in accordance with local state and federal regulations.

Hazards Not Otherwise
Classified:

If ingested, product may cause burns to the mouth, throat, and stomach. Product is not classified as an OSHA GHS (globally harmonized system) oxidizer, but gross contamination of product with a flammable, low flash point liquid may result in ignition.

Ingredients with
Unknown Toxicity:

None

Potential
Environmental
Effects:

Significant contamination of small bodies of surface water or localized areas at the point of a spill may depress pH levels below tolerable levels for aquatic organisms. Some ingredients also toxic to aquatic life.



Section 3 Composition/Information on Ingredients

Hazardous Ingredient(s)	Common Name(s)	CAS#	% by Wt*
Pentapotassium bis(peroxymonosulfate) bis(sulfate)	Potassium peroxymonosulfate	70693-62-8	60.0-95.0
Proprietary**	Proprietary	Proprietary	1.0-15.0
Proprietary**	Proprietary	Proprietary	1.0-15.0
Citric acid	Citric acid	77-92-9	1.0-15.0

* The exact percent by weight of the ingredients in this formulation is proprietary.

** Identity and CAS numbers of these ingredients are proprietary.

Section 4 First-Aid Measures

Eyes:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Immediately, call a doctor.
Skin:	If on skin (or hair): Immediately, take off all contaminated clothing. If possible, brush off dry product gently before rinse. Rinse skin with water. Use safety shower if available and warranted. Call a doctor if burns or irritation occurs.
Inhalation:	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.
Ingestion:	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor; get medical attention immediately.
Acute Symptoms:	Irritation or burns to eyes, skin, or mucous membranes. Injury may result in permanent damage to eyesight or permanent scars on skin.
Delayed Effects:	Skin or respiratory irritation is possible following exposures below threshold for acute effects.

Immediate or Special Treatment Requirements:

After contact with product, immediately flush eyes with water for 15 minutes. Flush skin also as necessary to quiet discomfort and provide a thorough flush. If safety shower or eye wash or other water source is plumbed to cold water, it may be necessary to move victim to a locker room or bathroom shower or elsewhere to obtain a lukewarm water source before the flush is complete. After the flush, seek medical treatment.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:	Product is not flammable. Use water spray (fog), foam or dry chemical if appropriate for surrounding fire. Do not use carbon dioxide (CO2) or high volume water jet.
Specific Hazards:	Product is corrosive to eyes, skin, and may irritate respiratory system. Thermal decomposition under fire conditions may produce corrosive or irritating aerosols, oxides of sulfur, oxides of carbon, and metal oxides.
Special PPE & Precautions:	Wear self-contained breathing apparatus and full turn-out gear. Approach fire from upwind direction. If possible, move containers away from fire. Product may evolve irritating or toxic gas under extreme heat.



Section 6 Accidental Release Measures

Personal Precautions, PPE, & Emergency Procedures: Wear eye protection and rubber gloves. Avoid release to the environment.

Containment & Clean-Up: Avoid generation of dust. Use uncontaminated material in the intended pool maintenance application. Avoid contact between cleanup residues and combustible material or metal. Dispose of waste in an approved waste disposal facility.

Section 7 Handling and Storage

Precautions for Safe Handling: Avoid spillage. Avoid dust formation. Clean up small spills promptly. Protect product from moisture, direct sunlight, and contamination. Avoid contact between this product and other chemicals (especially acid), metals, and combustibles.

Conditions for Safe Storage: Store product in original container in well ventilated, secure area. Do not store near acids. Protect from excessive heat. Storage temperature should remain less than 122° F. Protect containers against physical damage. Protect label. Reseal containers in use and keep containers upright. Empty containers retain product residues and label hazards may still be present until container is thoroughly cleaned.

Section 8 Exposure Controls/Personal Protection

Exposure limits for the formulated product are not established. Exposure limits for hazardous ingredient(s):

Ingredient	Source & Parameter	Exposure Limit
Pentapotassium bis(peroxymonosulfate) bis(sulfate)	OSHA PEL	none listed
Pentapotassium bis(peroxymonosulfate) bis(sulfate)	ACGIH TLV	none listed
Persulfates, as persulfate	ACGIH TLV	0.1 mg/m ³
Total dust (generic PEL)*	OSHA PEL	15 mg/m ³
Respirable dust (generic PEL)*	OSHA PEL	5 mg/m ³

* Particulates not otherwise regulated

NOTE: OSHA - Occupational Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; NIOSH – National Institute for Occupational Safety and Health; PEL – Permissible Exposure Limit; TWA – Time Weighted Average; TLV – Threshold Limit Value; REL – Recommended Exposure Limit; STEL – Short Term Exposure Limit; IDLH - Immediately Dangerous to Life or Health.

Engineering Controls: General exhaust ventilation (ordinary building ventilation) is adequate indoors. Employ practices that avoid spills and contact with any incompatible material.

Individual Protection/PPE: Wear eye protection and rubber gloves.



Section 9 Physical and Chemical Properties

Appearance (physical state, color, etc.):	White granular solid
Odor:	No odor
Odor threshold:	No odor
pH:	Product is a solid, solution pH not known
Melting point/freezing point:	No data, expected to decompose before melting
Initial boiling point and boiling range:	No data, expected to decompose before boiling.
Flash point:	None, not flammable
Evaporation rate:	Not known, negligible
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	None, not flammable
Vapor pressure:	Not known
Vapor density:	Not known
Relative density:	~2.2-2.5 gr/cm ³
Solubility(ies):	>200 gr/l at ambient temperature and pressure
Partition coefficient: n-octanol/water:	Not known
Auto-ignition temperature:	None, not flammable
Decomposition temperature:	Not known, > 122° F
Viscosity:	Not known

Section 10 Stability and Reactivity

Reactivity:	Product may react with acids. Product may also react with halogenated oxidizers.
Chemical stability:	Stable at ambient temperatures and pressures.
Possibility of Hazardous Reactions:	May react with acids. May also react with halogenated oxidizers. Polymerization will not occur.
Conditions to Avoid:	Avoid excessive heat. Avoid contact with acids. Avoid contact with oxidizers including common halogenated oxidizers like bleach (sodium hypochlorite) or calcium hypochlorite.
Incompatible Materials: Hazardous Decomposition Products:	Acids, halogenated compounds, cyanides, metal salts. Sulfur oxides, oxygen (fire hazard).

Section 11 Toxicological Information

Likely Routes of Exposure:	Eye or skin contact; inhalation of mist or aerosol.
Symptoms Related to Physical, Chemical, and Toxicological Characteristics:	Product is corrosive to eyes, skin, mucous membranes, and other tissues. Contact will irritate or burn eyes and skin. Permanent damage to eyesight is possible. Permanent scars are possible. Respiratory irritation is possible following inhalation.
Delayed Effects:	Skin or respiratory irritation is possible following exposures below the threshold required to cause acute effects.
Immediate Effects:	Irritation or burns to eyes, skin, or other tissues.
Chronic Effects:	Skin, eye, or respiratory irritation. Note above entry for delayed effects.



Numerical Measures of Toxicity:	No toxicology available on the formulated product. Toxicology data for product ingredient(s):
Pentapotassium bis(peroxymonosulfate) bis(sulfate)	Oral rat LD50, 500 mg/kg
Carcinogenicity:	Product does not contain 0.1% or greater of ingredients listed as a carcinogens by IARC, NTP, or OSHA.

Section 12 Ecological Information

Ecotoxicity:	Significant contamination of small bodies of surface water or localized areas at the point of a spill may depress pH levels below tolerable levels for aquatic organisms.
Aquatic toxicity data	No aquatic toxicity available on the formulated product. Aquatic toxicity data for hazardous ingredients:
Pentapotassium bis(peroxymonosulfate) bis(sulfate)	Rainbow trout 96 hour LC50 – 53 mg/l <i>Daphnia magna</i> 48 hour EC50 – 3.5 mg/l
Persistence and Degradability:	Inorganic product ingredients will dissipate via oxidation and other reactions. Product will not be persistent in the environment.
Bioaccumulative Potential:	Product ingredients do not bioaccumulate.
Mobility in Soil:	Not known. Expected to be minimal.
Other Adverse Effects:	None known.

Section 13 Disposal Considerations

Product is consumed during recommended use. As shipped and/or purchased, material is not an EPA RCRA hazardous waste. Dispose of contents or container in accordance with local, state, and federal regulations.

Section 14 Transport Information

UN Number:	UN3260
UN Proper Shipping Name:	Corrosive solid, acidic, inorganic, N.O.S. (monopersulfate compound)
Transport Hazard class(es)	8
Packing Group:	PG II
Environmental Hazards:	Does not contain ingredient(s) listed as marine pollutant.
Transport in Bulk:	Product container meets or exceeds DOT requirements.
Special Precautions:	Keep dry. Keep separate from foodstuffs.



Section 15 Regulatory Information

US EPA EPCRA SARA Section 312:	Acute hazard. Corrosive to skin and eyes.
US EPA EPCRA SARA Section 313:	Ingredients not listed
US EPA CERCLA	Ingredients not listed
US EPA TSCA:	All ingredients listed or exempt

Section 16 Other Information

NFPA Hazard Ranking

Health	Fire	Reactivity	Special
3	0	1	Cor

HMIS Hazard Ranking

Health	Fire	Reactivity	PPE
3	0	1	B (defined below)

B – Safety glasses and gloves

References

1. Manufacturers' SDS on file for raw materials used in this product.
2. 29 CFR 1910.1200. Current OSHA eCFR edition as of the November 2022.
3. ANSI Z400.1/Z129.1-2010. Hazard Evaluation and Safety Data Sheet and Labeling Preparation. American National Standards Institute, Inc., New York, NY. 2010.
4. The Globally Harmonized system of Classification and Labeling of Chemicals. (Purple Book) United Nations. 2009.
5. The Globally Harmonized system of Classification and Labeling of Chemicals. (Purple Book) Fifth Revised Edition. United Nations. 2013.
6. ACGIH. Threshold Limit Values and Biological Exposures Indices. 2021.
7. 49 CFR 172.101, Hazardous Materials Table. Current DOT eCFR edition as of November 2022.
8. EPA List of Lists. EPA 550-B-19-003. June 2019. Online at www.epa.gov/epcra.

Date of Preparation

November 7 2022

Revision 1.0: First OSHA GHS SDS for this product.

Disclaimer, if present