

SECTION 1: Identification**Product identifier:** PowerOx**Other means of identification:** Liquid oxygen destainer**SDS number:** 2004**Recommended use:** Oxygen destainer**Recommended restrictions:** Not for personal care**Manufacturer/Importer/Supplier/Distributor information**

Company name: UNX Industries, Inc.
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Greenville, NC 27858
Telephone: Office hour (Mon-Fri)
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SECTION 2: Hazard(s) identification**Classification of the substance or mixture:****Physical hazards**

Oxidizing Liquids Category 1

Health hazardsAcute toxicity, Oral/Dermal/Inhalation: Category 4
Skin corrosion/irritation: Category 1A
Serious eye damage/eye irritation: Category 1**Label elements:****Signal word:** Danger**Hazard statements**H271 May cause fire or explosion; strong oxidizer
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

SECTION 2: Hazard(s) identification (continued)

Precautionary statements

Prevention:

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
P220 Keep/Store away from clothing and combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P262 Do not get in eyes, skin, or on clothing.
P264 Wash hands, arms, face and exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this products.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response:

- P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep 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.
P306+P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P308+P313 If exposed or concerned: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use water spray or water fog powder to extinguish.
P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire due to the risk of explosion.

Storage:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant container or in a container with a resistant inner liner.

Disposal:

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC): Not classified

SECTION 3: Composition / information on ingredients

Substance/Mixtures

Chemical name	CAS No.	Concentration (%)
Water	7732-18-5	60-88
Hydrogen Peroxide	7722-84-1	20-40

SECTION 4: First-aid measures

Description of first aid measures

Non-emergency personnel

General advice: safely remove victims from the danger zone. Provide emergency services with this safety data sheet

Eye contact: immediately rinse eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact: rinse skin with plenty of water for at least 15 minutes. If exposed to small amounts, get medical attention if symptoms occur or irritation persists. If exposed to large amounts, get medical attention immediately.

Ingestion: rinse mouth with water if the person is conscious. Do not induce vomiting unless directed by medical personnel. Get medical attention immediately.

Inhalation: bring victim out to fresh air. If the person has difficulty breathing, administer oxygen. In case of unconsciousness, place the person on their side for transport, get medical attention immediately.

Emergency personnel

Personal Protection: refer to Section 8 for specific personal protective equipment

Notes to physician: the concentration and length of exposure impacts the severity of the symptoms.

Most important symptoms/effects, acute and delayed: Refer to Section 2 for hazards and Section 11 for information on health effects and symptoms. Treat symptomatically.

Indication of immediate medical attention and special treatment needed, if necessary: provide general supportive measures. Eye contact, inhalation, and ingestion cases should be treated immediately. Have procedures and facilities in place to treat these cases of exposure.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: use any means suitable for extinguishing the fire. Water spray can be used to keep fire exposed containers cool and to reduce the fumes/irritant gases.

Unsuitable extinguishing media: do not use a water jet as this can spread the fire and may cause the splattering of this corrosive liquid.

Specific hazards arising from the chemical: not combustible, but the substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Hydrogen peroxide increases the flammability of combustible, organic and readily oxidizable materials. Contact with oxidizable substances may cause extremely violent combustion. Sealed containers may rupture or melt from the heat and material will be combustible and provide fuel to the fire. Do not breath any fumes caused by the fire. Withdraw immediately in cases of rising sound from venting safety device or discoloration of tanks. For massive fire in cargo, use unmanned hose holder or monitor nozzles. If not, withdraw and let fire burn out.

SECTION 5: Fire-fighting measures

Special protective equipment for fire fighters: wear full protective airtight garment and NIOSH approved self-contained breathing apparatus with independent air-supply. Fight the fire in early stages if safe to do so. Provide sufficient ventilation and be aware of hydrogen generation upon reactions with some metals. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: ventilate and restrict access to the area of leak or spill. Have emergency procedures in place for treating incidents, evacuation and informing the emergency services. Refer to Section 8 for personal protective equipment.

Environment precautions: clean up spills/leaks immediately and prevent it from spreading. Large or uncontrolled spills to water systems must be reported to appropriate regulatory body.

Methods and materials for containment and cleaning up: absorb spills with non-combustible absorbent. Dam and absorb with sand, earth or other inert material for large spills/leaks. Collect spillage in containers with labeled contents and dispose according to local regulations. Flush the contaminated area with lots of water.

SECTION 7: Handling and storage

Precautions for safe handling: Refer to Section 8 for personal protective equipment. Do not eat, drink, or smoke when handling the product. Avoid skin and eye contact. Follow general hygiene routines after working with the product. When handling large amounts of the product, be sure to have a safety shower nearby.

Conditions for safe storage: store in a suitable, closed and labeled container upright at a temperature between 40°F and 100°F in a well-ventilated area. Opened containers must be properly resealed to avoid spillage. It is preferred to keep containers on sump pallets. Store away from heat, direct sunlight and moisture. Store in high-density polyethylene containers. See Section 10 for incompatible materials.

SECTION 8: Exposure control/personal protection

Control Parameters

Occupational exposure limits

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	CAS-No.	Type	Value	
Hydrogen peroxide	7722-84-1	PEL	1 ppm	1.4 mg/m ³

U.S. ACGIH Threshold Limit Values

Chemical Name	CAS-No.	Type	Value
Hydrogen peroxide	7722-84-1	TWA	1 ppm

SECTION 8: Exposure control/personal protection (continued)

Appropriate engineering controls/ventilation system:

A general exhaust system is recommended to keep employee exposures below the limits. An additional local exhaust system is preferred in order to control emissions at its source.

Personal Protective Equipment (PPE)

Respiratory Protection: A NIOSH approved full-face respirator with high efficiency dust/mist filter is recommended. For emergencies or when dealing with unknown exposure measures, use a full-face piece positive-pressure, air-supplied respirator fitted with a suitable cartridge for the chemical. Consult respirator supplier regarding the compatibility of the equipment.

CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use an air supply system.

Hand Protection: impervious gloves, with suitable protection for workplace, are recommended any time the product is being handled. Consult glove supplier for details on suitability, breakthrough time and permeability. Frequent change of the glove is advisable. Be aware that latex gloves can trigger an allergic reaction to sensitive individuals.

Eye Protection: use chemical safety goggles and/or full-face shield when handling the product.

Skin/Body Protection: wear impervious protective clothing, boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Take additional precaution if handling amounts past the exposure limits.

Thermal Hazard: wear thermal protective clothing when necessary

General Hygiene: change out of clothes, thoroughly wash your hands and clothes, and shower/bathe as soon as possible. Do not eat, drink, smoke or use the bathroom while handling the product.

Other Protective Measures: have an eye wash and safety shower station close by. Routinely wash all equipment to remove contaminants.

SECTION 9: Physical and chemical properties

Appearance:	Liquid
Colour:	Clear liquid
Odour:	Slight pungent odor
Odour Threshold:	No data available
pH:	No data available
Melting point/range:	No data available
Boiling point/range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability of explosive limits:	No data available
Vapour pressure (mm Hg):	No data available
Vapour density (Air=1):	No data available
Relative density:	No data available

SECTION 9: Physical and chemical properties (continued)

Solubility(ies): Excellent
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, dynamic: No data available

Other Information: This product does not contain phosphates.

SECTION 10: Stability and reactivity

Reactivity: No hazardous reactions are known under normal storage conditions and if handled according to standard industrial practices.

Chemical stability: Stable if under normal storage conditions and handled according to standard industrial practices. Container may swell.

Possibility of hazardous reactions: Hazardous polymerization will not occur

Conditions to avoid: No hazardous conditions are known

Incompatible materials: Acids, alkali and metals.

Hazardous decomposition products: Rate of decompositions increases with heat.

SECTION 11: Toxicological information

Acute toxicity: Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components of this material.

Category 4- Oral/Dermal/Inhalation: Harmful; if swallowed, in contact with skin or if inhaled.

Hydrogen Peroxide – Acute Toxicity Estimate (ATE)		
Oral LD ₅₀ 1,232 mg/kg (Rat)	Dermal LD ₅₀ >2,000 mg/kg (Rabbit)	Inhalation LD ₅₀ 2.0 mg/kg, 4 h, (Rat)

Skin Corrosion/ irritation: Category 1: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Category 1: Causes serious eye damage.

Respiratory or skin sensitization: Classification not possible.

Germ cell mutagenicity: Classification not possible.

Carcinogenicity: Classification not possible. **Reproductive toxicity:** Classification not possible.

Specific Target Organ Toxicity - Single Exposure: Classification not possible.

Specific Target Organ Toxicity - Repeated Exposure: Classification not possible.

Aspiration hazard: Classification not possible.

SECTION 12: Ecological information

Toxicity: Do not allow to escape into waterways, wastewater or soil. Ecotoxicological studies of the product are not available. Please find below the data available to us from raw materials:

Hydrogen Peroxide		
EC ₅₀ (Algae) 2.5 mg/l, 72 h	EC ₅₀ (Daphnia) 2.4 mg/l, 48 h	LC ₅₀ (Fish) 16.4mg/l, 96 h

Persistence and degradability: Expected to be readily biodegradable.

Bioaccumulative potential: No bioaccumulation expected.

Mobility in soil: This material is a mobile liquid.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

General Information: Do not allow the product to contaminate any body of water. Refer to Section 8 for personal protection equipment.

Disposal Methods: Avoid unauthorized disposal. Do not dump into any body of water. Comply with federal, state/provincial and local laws/regulations. Do not reuse empty containers.

SECTION 14: Transport information

UN Number: UN 2014
UN Proper Shipping Name: Hydrogen peroxide, aqueous solution

Transport hazard class(es):
DOT Hazard Class: 5.1
DOT Subsidiary Hazard Class: 8
Label: Oxidizer
Packing group, if available: II
Environmental Hazards: Yes
Special precautions for user: Not available.

Transport in bulk according to Annex II of MARPOL 73/78³ and the IBC Code ³: Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Unless otherwise noted, no components are SARA TITLE 3 SECTION 313 40 CFR listed materials.

The ingredients of this product are listed on the TSCA inventory.

This product is not made with VOC'S that could cause damage to the ozone layer.

SARA TITLE III- Section 302 Extremely Hazardous Chemicals:

SARA TITLE III- Section 311/312 Hazard Categories:

Acute Health Hazard, Fire Hazard, Reactivity Hazard

SARA TITLE III- Section 313 Toxic 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.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)- Reportable Quantity (RQ):

OSHA Regulated Carcinogens (NTP, IARC, OSHA Listed):

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.

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.

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.

United States- State Regulations

Massachusetts Right to Know

Chemical Name: Hydrogen Peroxide

CAS-No.: 7722-84-1

Massachusetts Right to Know- Extraordinarily Hazardous Substance(s)

Chemical Name: Hydrogen Peroxide

CAS-No.: 7722-84-1

New Jersey Right to Know

Chemical Name: Hydrogen Peroxide

CAS-No.: 7722-84-1

New Jersey Right to Know- Extraordinarily Hazardous Substance(s)

Chemical Name: Hydrogen Peroxide

CAS-No.: 7722-84-1

Pennsylvania Right to Know

Chemical Name: Hydrogen Peroxide
Water

CAS-No.: 7722-84-1
7732-18-5

SECTION 15: Regulatory information (continued)

Pennsylvania Right to Know- Extraordinarily Hazardous Substance

Chemical Name: Hydrogen Peroxide CAS-No.: 7722-84-1

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 productive defects.

OSHA Classification: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SECTION 16: Other information including date of preparation or last revision

Chemical State: Liquid Issue Date: 10-19-2020
Chemical Type: Mixture Revision Date: 03-20-2023
Version #: 01

3	Health
0	Flammability
2	Physical Hazard
C	Personal Protection

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