

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : OXY BLEACH
 Product code : OXY
 Other means of identification : Hydrogen peroxide (aqueous solution)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Industrial and Institutional Oxy Bleach

1.3. Supplier

Sky Blue Industries, Inc.
 760 W. Exchange Road
 Ogden, Utah 84401 - USA
 T (800) 998-2808
www.skyblueindustries.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Ox. Liq. 1	May cause fire or explosion; strong oxidizer
Acute Tox. 4 (Oral)	Harmful if swallowed
Skin Corr. 1A	Causes severe skin burns and eye damage

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

May cause fire or explosion; strong oxidizer
 Harmful if swallowed
 Causes severe skin burns and eye damage

Precautionary statements (GHS-US) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Keep/Store away from clothing/.../combustible materials
 Take any precaution to avoid mixing with combustibles/...
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash hands, forearms and face thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Wear fire/flammable resistant/retardant clothing
 If swallowed: Call a poison center/doctor/... if you feel unwell
 If swallowed: rinse mouth. Do NOT induce vomiting
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 If inhaled: Remove person to fresh air and keep comfortable for breathing
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If on clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
 Immediately call a poison center/doctor/...
 Specific treatment (see ... on this label)
 Rinse mouth
 Wash contaminated clothing before reuse
 In case of fire: Use media other than water to extinguish
 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of

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explosion
Store locked up
Dispose of contents/container to ...

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Hydrogen peroxide	(CAS-No.) 7722-84-1	10 – 20	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Aquatic Acute 3, H402

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Call a physician immediately.
- First-aid measures after eye contact : 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. Call a physician immediately.
- First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed.
- Symptoms/injuries : Inflammation/damage of the eye tissue.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. Burns.
- Symptoms/injuries after eye contact : Causes serious eye damage. Serious damage to eyes.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

- Fire hazard : May intensify fire; oxidizer. Promotes combustion. May cause fire or explosion; strong oxidizer.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Special protective equipment and precautions for fire-fighters

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|--------------------------------|--|
| Firefighting instructions | : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Fight fire remotely due to the risk of explosion. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| General measures | : No open flames. No smoking. |
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6.1.1. For non-emergency personnel

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| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Keep upwind. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. |
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6.1.2. For emergency responders

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| Protective equipment | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. See Section 12 for additional Ecological information.

6.3. Methods and material for containment and cleaning up

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| For containment | : Dike to collect large liquid spills. Stop leak and contain spill if this can be done safely. Small spillage: Dilute with large quantities of water. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Flush area with flooding quantities of water. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Additional hazards when processed | : Hazardous waste due to potential risk of explosion. |
| Precautions for safe handling | : Do not breathe fume/gas/mist/vapour/spray. Avoid contact during pregnancy/while nursing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take any precaution to avoid mixing with Combustible materials. Organic matter. Copper alloys, galvanized iron. Strong reducing agents. Heavy metals. Iron. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Wash hands and other exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

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| Technical measures | : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. |
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources, Combustible materials. Keep in fireproof place. Keep container tightly closed. Container must be vented. Containers should be visually inspected on a regular basis to detect any abnormalities (swelling, increases in temperature, etc.). Store locked up. Store in a well-ventilated place. Keep cool. |
| Incompatible materials | : Combustible materials. Copper alloys, iron, heavy metals, metallic ions. Strong reducing agents. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal decomposition. Combustible materials. |
| Heat-ignition | : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources. |

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Storage area : Fireproof storeroom. Keep container in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	1.14 mg/m ³
ACGIH TWA (ppm)	1 ppm
ACGIH STEL (ppm)	1 ppm
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) (mg/m ³)	1.4 mg/m ³
OSHA PEL (TWA) (ppm)	1
USA - IDLH - Occupational Exposure Limits	
US IDLH (ppm)	75 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	1.4 mg/m ³
NIOSH REL (TWA) (ppm)	1 ppm
Hydrogen peroxide (7722-84-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Hydrogen peroxide
ACGIH TWA (ppm)	1 ppm
Remark (ACGIH)	Eye, URT, & skin irr
USA - OSHA - Occupational Exposure Limits	
Local name	Hydrogen peroxide
OSHA PEL (TWA) (mg/m ³)	1.4 mg/m ³
OSHA PEL (TWA) (ppm)	1 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear fire/flammable resistant/retardant clothing. Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or face shield. Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing. Wear fire/flammable resistant/retardant clothing

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: Odourless
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: -12 °C
Boiling point	: 103 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.06
Specific gravity / density	: 8.87 lb/gal
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: May intensify fire; oxidizer.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Oxygen, which promotes combustion. May cause fire or explosion; strong oxidizer.

10.2. Chemical stability

Stable under normal conditions. Risk of explosion if heated under confinement. May intensify fire; oxidizer.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials. Metals. Organic matter. Reducing agents. Combustible materials.

10.6. Hazardous decomposition products

Thermal decomposition generates : Oxygen, which promotes combustion.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	1193 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

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LC50 inhalation rat (ppm)	≥ 170 ppm/4h
ATE US (oral)	1193 mg/kg body weight
ATE US (gases)	170 ppmV/4h

Hydrogen peroxide (7722-84-1)	
LD50 oral rat	1193 mg/kg body weight (15-35 % aqueous solution; Rat; OECD 401: Acute Oral Toxicity; Experimental value; 1270 mg/kg bodyweight; 15-35 % aqueous solution; Rat; OECD 401: Acute Oral Toxicity; Experimental value; 1026 mg/kg bodyweight; Aqueous solution; Rat; Experimental value; 694 mg/kg bodyweight; Aqueous solution; Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg body weight (15-35 % aqueous solution; Rabbit; Experimental value; Other)

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Hydrogen peroxide (7722-84-1)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
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Specific target organ toxicity – single exposure	: Not classified
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Specific target organ toxicity – repeated exposure	: Not classified
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Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
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Symptoms/injuries	: Inflammation/damage of the eye tissue.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Burns.
Symptoms/injuries after eye contact	: Causes serious eye damage. Serious damage to eyes.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
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Hydrogen peroxide (7722-84-1)	
LC50 fish 2	164 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Semi-static system; Fresh water; Experimental value)
EC50 Daphnia 2	24 mg/l (LC50; US EPA; 48 h; Daphnia pulex; Semi-static system; Fresh water; Experimental value)

12.2. Persistence and degradability

OXY BLEACH	
Persistence and degradability	Not established.
Hydrogen peroxide (7722-84-1)	
Persistence and degradability	Readily biodegradable in water. Readily biodegradable in the soil. No (test)data on mobility of the components available.

12.3. Bioaccumulative potential

OXY BLEACH	
Bioaccumulative potential	Not established.
Hydrogen peroxide (7722-84-1)	
Bioaccumulative potential	Not established.

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local/state/federal regulations.
- Additional information : Hazardous waste due to potential risk of explosion.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

- Transport document description : UN2984 Hydrogen peroxide, aqueous solutions (with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)), 5.1, III
- UN-No.(DOT) : UN2984
- Proper Shipping Name (DOT) : Hydrogen peroxide, aqueous solutions
with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)
- Class (DOT) : 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
- Packing group (DOT) : III - Minor Danger
- Hazard labels (DOT) : 5.1 - Oxidizer



- DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
- DOT Packaging Bulk (49 CFR 173.xxx) : 241

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- DOT Special Provisions (49 CFR 172.102) : A1 - Single packaging are not permitted on passenger aircraft.
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
IP5 - IBCs must have a device to allow venting. The inlet to the venting device must be located in the vapor space of the IBC under maximum filling conditions.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP6 - The tank must be equipped with a pressure release device which prevent a tank from bursting under fire engulfment conditions (the conditions prescribed in CGA pamphlet S1.2 (see 171.7 of this subchapter) or alternative conditions approved by the Associate Administrator may be used to consider the fire engulfment condition), taking into account the properties of the hazardous material to be transported.
TP24 - The portable tank may be fitted with a device to prevent the build up of excess pressure due to the slow decomposition of the hazardous material being transported. The device must be in the vapor space when the tank is filled under maximum filling conditions. This device must also prevent an unacceptable amount of leakage of liquid in the case of overturning.
TP37 - IM portable tanks are only authorized for the shipment of hydrogen peroxide solutions in water containing 72% or less hydrogen peroxide by weight. Pressure relief devices shall be designed to prevent the entry of foreign matter, the leakage of liquid and the development of any dangerous excess pressure. In addition, the portable tank must be designed so that internal surfaces may be effectively cleaned and passivated. Each tank must be equipped with pressure relief devices conforming to the following requirements: Total Concentration of hydrogen peroxide solution \1\ 52% or less 11 Over 52%, but not greater than 60%22 Over 60%, but not greater than 72%32 \1\ Total venting capacity in standard cubic feet hour (S.C.F.H.) per pound of hydrogen peroxide solution.
- DOT Packaging Exceptions (49 CFR 173.xxx) : 152
- DOT Quantity Limitations Passenger aircraft/rail : 2.5 L
(49 CFR 173.27)
- DOT Quantity Limitations Cargo aircraft only (49 : 30 L
CFR 175.75)
- DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
- DOT Vessel Stowage Other : 25 - Shade from radiant heat,66 - Stow "separated from" flammable solids,75 - Stow "separated from" permanganates
- Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Hydrogen peroxide (7722-84-1)	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

15.2. International regulations

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Hydrogen peroxide(7722-84-1)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Revision date : 01/26/2021

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Ox. Liq. 1	Oxidizing liquids Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H271	May cause fire or explosion; strong oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H402	Harmful to aquatic life

SDS US (GHS HazCom 2012)

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