

1. IDENTIFICATION

Product Identifier

Product Name OXYBRITE SB
Chemical Name Hydrogen peroxide solution

Recommended use of the chemical and restrictions on use

Recommended use Polysulfide remediation
Restrictions on use For industrial use only

Supplier details

West Penetone Inc.
 11411-160 Street
 Edmonton, AB,
 T5M3T7
 Tel: 780-454-3919

Emergency Telephone Number

Canutec 1-(613)-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

2. HAZARDS IDENTIFICATION

Classification

| | |
|--|-------------|
| Oxidizing liquids | Category 2 |
| Acute toxicity, oral | Category 4 |
| Skin corrosion/irritation | Category 1A |
| Serious eye damage/eye irritation | Category 1 |
| Hazardous to the aquatic environment, acute hazard | Category 3 |

Label Elements

DANGER

Hazard Statements

May intensify fire; oxidizer
 Harmful if swallowed
 Causes severe skin burns and eye damage
 Harmful to aquatic life



Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Keep away from clothing and other combustible materials.
 Do not breathe dust or mists.
 Wash face, hands and any exposed skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 IF IN EYES: 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.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|-------------------|-----------|----------|
| hydrogen peroxide | 7722-84-1 | ≤ 29.5 |

4. FIRST AID MEASURES

| | |
|---------------------|---|
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. |
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. |
| 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 |

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause conjunctivitis, corneal burns and permanent damage. Contact with skin may cause burns resulting in local redness or blistering and permanent damage. Inhalation may cause severe respiratory irritation as well as pulmonary edema. Toxic effects of inhalation may be delayed. Ingestion of high concentrations causes rapid release of oxygen gas which may expand the esophagus or stomach resulting in severe damage such as bleeding, ulceration, or perforation. Ingestion may cause burns to gastrointestinal tract. Aspiration into lungs may occur during ingestion or vomiting, resulting in lung injury.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

Strong oxidizer. Contact with combustible or incompatible materials may cause a fire or support combustion. During fire, material may release large quantities of oxygen supporting combustion or the risk of explosions.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush contaminated area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid contact with skin, eyes and clothing. Avoid inhalation of vapor or mist. Use recommended personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep in closed, vented containers away from direct sunlight in a dry, cool (2-8°C) and well-ventilated place, away from incompatible materials.

Incompatible Materials Organic and combustible materials, strong reducing agents or alkali, metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|----------------------------------|----------------------------------|---------------|
| hydrogen peroxide, 30% w/w 7722-84-1 | TWA: 1 ppm/1.4 mg/m ³ | TWA: 1 ppm/1.4 mg/m ³ | Not available |

Appropriate engineering controls

Engineering Controls Eyewash facilities and safety showers should be made available when handling this product. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields or goggles.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection Wear respiratory protection in case of vapor/aerosol release.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :

Colorless liquid

ODOR :

Slightly pungent

ODOR THRESHOLD :

Not applicable

pH :

Approx. 3.3

MELTING POINT / FREEZING POINT :

Approx. -33°C (-27°F)

BOILING POINT/BOILING RANGE :

Approx. 108°C (226°F)

FLASH POINT :

None

EVAPORATION RATE, water = 1 :

1

FLAMMABILITY (SOLID, GAS) :

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C (68°F) :

23.3

VAPOR DENSITY (Air = 1) :

1.1

RELATIVE DENSITY AT 20°C (68°F) :

1.100

SOLUBILITY IN WATER :

Complete

PARTITION COEFFICIENT, N-OCTANOL/WATER :

Not available

AUTO-IGNITION TEMPERATURE :

Not available

DECOMPOSITION TEMPERATURE :

Not available

VISCOSITY :

Not available

FLAMMABLE LIMITS :

UPPER : Not applicable **LOWER :** Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Light sensitive. Storage at room temperature leads to decomposition at a rate of 0.5% per year.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Extreme temperatures. Store away from incompatible materials.

Incompatible Materials

Organic and combustible materials, strong reducing agents or alkali, metals.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of oxygen.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|--------------------|------------------|------------------------------|
| Hydrogen peroxide 30% w/w 7722-84-1 | 1429 mg/kg (human) | 3000 mg/kg (rat) | 2 mg/L (rat) – 4 h dust/mist |

Information on likely sources of exposure

| | |
|-------------------------------|--|
| Ingestion | Expected to be a low ingestion hazard. |
| Skin corrosion/irritation | Causes severe skin burns. |
| Inhalation | May be harmful if inhaled. |
| Serious eye damage/irritation | Causes serious eye damage. |

Delayed and immediate effects and also chronic effects from short and long-term exposure

| | |
|-----------------------------------|---------------------------|
| Respiratory or skin sensitization | Not a sensitizer. |
| Germ cell mutagenicity | None known. |
| Carcinogenicity | No listed carcinogens. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT-repeated exposure | No information available. |
| Aspiration Hazard | None. |

Symptoms related to the physical, chemical and toxicological characteristics

May cause severe skin burns or eye damage. Inhalation may cause severe respiratory irritation as well as pulmonary edema. Ingestion of high concentrations may result in severe damage such as bleeding, ulceration, or perforation with burns to gastrointestinal tract.

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

| Chemical Name | Fish | Waterflea | Algae |
|---|----------------------|---------------------|---------------------|
| Hydrogen peroxide, 30% w/w 7722-84-1 | 37.4 mg/L: 96 h LC50 | 2.4 mg/L: 48 h EC50 | 0.1 mg/L: 72 h NOEC |

Persistence and degradability

Not applicable to inorganic substances.

Bioaccumulative potential

Does not significantly accumulate in organisms.

Mobility in soil

No information available

Other adverse effects

Do not release untreated into natural waters. No other adverse environmental effects are expected.

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

UN Number: 2014
UN Proper Shipping Name: Hydrogen Peroxide, Aqueous Solution
Transport Hazard Class(es)
Class: TDG: 5.1 (8)
US DOT: 5.1 (8)
IMDG: 5.1 (8)
Label(s): 5.1 (8)
Packing Group: II
Marine Pollutant: No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not determined

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

HMIS Information:

Health: 3
Flammability: 0
Reactivity: 1

16. OTHER INFORMATION

Preparation Date 6 October, 2016
Revision Date 23 April 2018
Revision Note Modifications to Section 1, 7, 11, 14, 15

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS