

Material Safety Data Sheet



OXY-PAK

Section 1. Chemical product and company identification

Trade name : OXY-PAK
Product use : Cleaning product
Supplier : Ecolab Inc. Food & Beverage Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-392-3392
Code : 937854
Date of issue : 01-December-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, Information on Ingredients

| <u>Name</u> | <u>CAS number</u> | <u>% by weight</u> |
|----------------------------|-------------------|--------------------|
| hydrogen peroxide solution | 7722-84-1 | 40 |

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : DANGER!

CAUSES EYE AND SKIN BURNS.
OXIDIZER.

CAUSES RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

Do not ingest. Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Store in tightly closed container. Avoid contact with combustible materials. Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight. Decomposes on heating. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Irritating to respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.

See toxicological Information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

Flash point : > 100°C
Fire fighting media and instructions : Use an extinguishing agent suitable for surrounding fires.

Dike area of fire to prevent product run-off.

This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire.

Special protective equipment for fire-fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.--

Section 7. Handling and storage

Handling : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Store in original container protected from direct sunlight. Avoid contact with combustible materials. Wash thoroughly after handling.

Storage : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from reducers and flammable/combustible materials, etc. in storage. Do not store above 30°C

Section 8. Exposure Controls, Personal Protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Provide eyewash and safety shower in area if contact or splash hazard exists.

Personal protection

Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hands : Use chemical resistant, impervious gloves.

Skin : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory : Avoid breathing vapor or mist.

Name

hydrogen peroxide solution

Exposure limits

ACGIH TLV (United States, 1/2004).

TWA: 1.4 mg/m³ 8 hour(s). Form: All forms

TWA: 1 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

TWA: 1.4 mg/m³ 8 hour(s). Form: All forms

TWA: 1 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)

Color : Colorless.

Odor : Pungent.

pH : 2.5 (100%)

Boiling/condensation point : >100 °C

Specific gravity : 1.13 (Water = 1)

Dispersion properties : Easily dispersed in cold water, hot water.

Solubility : Easily soluble in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable. Decomposes on heating.

Reactivity : Reactive with organic materials, metals.
Slightly reactive to reactive with acids, alkalis.
Oxygen

Section 11. Toxicological information

Potential acute health effects

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

Inhalation : Irritating to respiratory system.

Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.

Potential chronic health effects

Chronic effects on humans : Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Additional information |
|------------------------|-----------|--------------------------------------|---------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Classification | UN2014 | Hydrogen peroxide, aqueous solutions | 5.1 (8) | II | <p>Limited quantity Yes..</p> <p>Special provisions 12, A3, A6, B53, B80, B81, B85, IB2, IP5, T7, TP2, TP6, TP24, TP37</p> |

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Oxidizing material
Corrosive material
Target organ effects

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: hydrogen peroxide solution
SARA 302/304 emergency planning and notification: hydrogen peroxide solution

TSCA 8(b) inventory : All materials are listed or exempt.

California prop. 65 : No products were found.

Section 16. Other information

| | | | | |
|---------------------------------------------------|---|------------------------|---|---|
| Hazardous Material Information System (U.S.A.) | : | Health | * | 3 |
| | | Fire hazard | | 0 |
| | | Reactivity | | 1 |
| | | Personal protection | | C |

Date of issue : 01-December-2005.
Responsible name : Regulatory Affairs
Date of previous issue : No Previous Validation.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.