



Hydrogen Peroxide Bleach

DESCRIPTION

Oxygentle is a liquid oxygen bleach, effective in removing stains from colored fabrics that chlorine bleach cannot be used on. **Oxygentle** contains Hydrogen Peroxide and quickly disperses throughout entire wash compartment using an Oxidation process to remove organic stains. There are no harmful waste products from using **Oxygentle**, just oxygen and water!

As well as preventing fabric discoloration from iron deposits, **Oxygentle** can be used on polyester fabrics or any other materials adversely affected by chlorine bleach.

SPECIAL INFORMATION

It is very important not to contaminate **Oxygentle** with organics or iron. A very small amount of iron will inactivate the bleach. Protect skin from liquid. Do not store **Oxygentle** at temperatures above 30°C (86°F).

Oxygentle is a Canadian Food Inspection Agency (CFIA) approved product for use in registered food processing plants.

DIRECTIONS

For the General Sanitizing of pre-cleaned hard surfaces:

Dilute 60 mL of **Oxygentle** in 3.78 L (2 oz per 1 US gal) of cold water with stirring. This dilution produces an 1100 ppm active hydrogen peroxide solution.

Optimal bleaching conditions for Laundry are:

pH (wash)	10.8 to 11.2
Time	10 to 12 minutes
Temperature	76 to 82°C (170 to 180°F)
Concentration	60 to 120 ml (2 - 4 oz) per 45 kg load

Please consult your M-chem representative for specific recommendations to meet your particular needs.

PHYSICAL DATA

Appearance	Liquid
Color	Colorless
Foam	None
Odor	None
pH	3.0 – 4.0
Hydrogen Peroxide %	7.0 minimum

New tech products engineered to work harder...so you don't have to!

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **OXYGENTLE**

WHMIS CODE: D2B

Product Use: *Hydrogen peroxide based bleach and sanitizer.*

Proper Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

HMIS

1	Health
0	Flammability
0	Reactivity
B	Personal

A=Gloves, B=Goggles & Gloves
C=Goggles, Gloves and Apron

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U.S.A.: Chemtrec 800-424-9300

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
HYDROGEN PEROXIDE	7722-84-1	5.0 - 8.0	N/A	N/E
LD50 (oral rat) 1518 mg/kg				
LD50 (dermal) N/A				
LC50 N/A				

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear, colorless	Boiling Point: N/D	Vapor Pressure (mm HG): N/D	pH: 3.0 - 4.0
Physical State: Liquid.	Melting Point: N/A	Vapor Density: N/D	Specific Gravity: 1.03 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0	Evaporation Rate: N/D	Solubility in Water: Soluble	Odor Threshold: No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Conditions of Flammability:** None.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Extinguishing Media: Not flammable. Use extinguishing medias suitable for surrounding areas.
Unusual Fire and Explosion Hazards: None known.
Hazardous Combustion Products: Oxides of carbon.
Special Fire Fighting: Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions.
Hazardous Polymerization: Will not occur.
Incompatibility (material to avoid): Strong reducing agents, organic compounds.
Hazardous Decomposition Products: Oxides of carbon.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation.
Irritancy of Product: May be irritating to eyes or skin. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause drying, defatting, and dermatitis.
Effects of Acute Exposure to Product: Product exposure may cause mild transient irritation on eye contact, or slight redness on skin contact. Ingestion may cause vomiting, headache and medical problems.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Normally not required. Use a NIOSH/MSHA approved dust/mist respirator if product is misted/sprayed in confined areas.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or butyl rubber, nitrile or neoprene gloves.
Eye Protection: Normally not required. If product mist/spray is possible at use, use chemical goggles, safety goggles or glasses.
Protective Clothing and Equipment: Long sleeve clothing. Eyes wash recommended in the immediate work area.
Storage and Handling Procedures: Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and natural waters.
Waste Disposal Method: Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.
Special Shipping Information: Store at temperature below 30°C. Keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE