

MATERIAL SAFETY DATA SHEET / page 1

BIOXY ENVIRO

HAZARD RATING
HAZARD CODE



4- SEVERE
3- SERIOUS
2- MODERATE
1- SLIGHT
0- MINIMAL

FIRE HAZARD (0)
HEALTH HAZARD (1)
REACTIVITY (0)
PERSONAL PROTECTION (R)



Section 1. Chemical product and company identification

TRADE NAME AND SYNONYMS	CHEMICAL FORMULA	MATERIAL USE
BIOXY ENVIRO	Proprietary	Powdered disinfectant

Section 2. Composition, information on ingredients

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION (%)	CAS. NA OR UN NUMBERS
Sodium Carbonate Peroxyhydrate	30-70%	15630-89-4
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	2%	85409-23-0
Alkyl dimethyl benzyl ammonium chloride (C12-18)	2%	68391-01-5
The other ingredients are not hazardous.		

Section 3. Hazards identification

Physical state	Solid. (Hygroscopic)
Emergency overview	Caution! MAY BE HARMFUL IF SWALLOWED. Do not ingest. Wash thoroughly after handling.
Potential acute health effects Eyes: Slightly irritating to the eyes. Skin: Slightly irritating to the skin. Inhalation: Slightly irritating to the respiratory system. Ingestion: Harmful if swallowed. Carcinogenic effects: No known significant effects or critical hazards. Mutagenic effects: No known significant effects or critical hazards. Reproduction toxicity: No known significant effects or critical hazards. See toxicological Information (section 11)	

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Information contained in this literature is believed to be accurate and is offered in good faith for the benefit of the consumer. The company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control.

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Section 4. First aid measures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin Contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. Get medical attention if irritation occurs. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire fighting measures

Flammability of the product	Non-flammable.
Products of combustion	These products are nitrogen oxides (CO, CO2 etc.). Some metallic oxides.
Fire-fighting media and Instructions	Use water only in flooding quantities. Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous thermal decomposition products	These products are: Oxides of carbon. Oxides of sodium.

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Section 6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
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, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Section 7. Handling and storage

Handling	Avoid creating dusty conditions and prevent wind dispersal. Avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.
Storage	Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.

Section 8. Exposure controls, personal protection

Engineering controls	Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal protection Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields .
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Respiratory	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hour(s) (breakthrough time): butyl rubber , natural rubber (latex) , nitrile rubber

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Personal protective equipment (Pictograms)	
Personal protection in case of a large spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product. Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state	Solid. (Hygroscopic)
Color	White. Off-white.
Odor	Odorless
Specific gravity	1.00 ± 0.05 (Water = 1)
Solubility at 0.2%	Soluble in cold water.
pH (2.0% solution)	8.00 ± 2.0
pH (0.2% solution)	8.00 ± 2.0

Section 10. Stability and reactivity

Stability and reactivity	Stable under recommended storage and handling conditions (see section 7).
Incompatibility with various Substances	Reactive or incompatible with the following materials: combustible materials, acids and alkalis.
Hazardous thermal decomposition products	These products are: nitrogen oxides (NO, NO2 etc.).

Section 11. Toxicological information

Toxicity data	Test	Result	Route	Species
Ingredient name				
Sodium Carbonate peroxyhydrate	LD50	1034 mg/kg	Oral	Rat
Other toxic effects on Humans	Not considered to be toxic to humans.			

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Section 12. Ecological information

Ecotoxicity data Ingredient name Sodium Carbonate Peroxyhydrate	Species Fish (LC50) (Pimephales promelas) Fresh water algae EC50 (Chlorella emersonii)	Data 70.7 mg 70.0 mg
Special remarks on the products of biodegradation	The product does not show any bioaccumulation phenomena.	

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.
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Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-

Section 15. Regulatory information

WHMIS (Canada) CANADA INVENTORY (DSL)	Not controlled under WHMIS (Canada).
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Section 16. Other information

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