

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:

Hyperox

AS SOLD BY VETOQUINOL CANADA

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Material Safety Data Sheet



Antec - HyperoxTM

Version 3.0

Revision Date 12/17/2015

Ref. 130000018856

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: Antec - Hyperox TM
MSDS Number	: 130000018856
Product Use	: Disinfectant
Manufacturer	: THE CHEMOURS CANADA COMPANY PO BOX 118 STREETSVILLE ON L5M 2B7
Product Information	: 1-844-773-CHEM
Medical Emergency	: 1-866-595-1473 (24 hours)
Other information	: professional use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

Potential Health Effects

Skin	: May cause: Severe skin irritation
Eyes	: Causes: Severe eye irritation
Inhalation	: May cause irritation of respiratory tract.
Ingestion	: May be: Harmful if swallowed.
Repeated exposure	: Respiratory tract damage, Gastrointestinal effects

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Target Organ : Respiratory Tract, Digestive organs

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Hydrogen peroxide	7722-84-1	20 - 30 %
Peracetic acid	79-21-0	3 - 5 %
Acetic acid	64-19-7	3 - 8 %

SECTION 4. FIRST AID MEASURES

- Skin contact : Wash off immediately with plenty of water. Take off contaminated clothing and shoes immediately. Consult a physician.
- Eye contact : Remove contact lenses. Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Seek medical advice.
- Inhalation : Move to fresh air. If victim has stopped breathing: Artificial respiration and/or oxygen may be necessary. Call a physician immediately.

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Ingestion	: Do NOT induce vomiting. Rinse mouth. If conscious, drink plenty of water. Call a physician immediately.
General advice	: Keep upper body upright. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
Notes to physician	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point	: > 96 °C (> 205 °F) estimated
Ignition temperature	: ca. 430 °C (806 °F)
Self-Accelerating decomposition temperature (SADT)	: >= 60 °C (140 °F)
Lower explosion limit/ lower flammability limit	: None.
Upper explosion limit/ upper flammability limit	: None.
Flammability (solid, gas)	: no data available

Fire and Explosion Hazard	: Do not allow run-off from fire fighting to enter drains or water courses.
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Hazardous combustion products	: Oxygen
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Suitable extinguishing media	: Foam, Dry powder, Water spray, Carbon dioxide (CO ₂)
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Firefighting Instructions : Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel to safe areas. Wear personal protective equipment.

Spill Cleanup : Clean-up methods - large spillage Clean contaminated surface thoroughly. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Shovel into suitable container for disposal.
Clean-up methods - small spillage Dilute with plenty of water. Flush away traces with water. Soak up with inert absorbent material and dispose of as hazardous waste. Shovel into suitable container for disposal.

Accidental Release Measures : Do not contaminate surface water. Do not let product enter drains. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : For personal protection see section 8. Avoid contact with skin, eyes and clothing. Check packages regularly for any signs of deformation, pressure build-up leakage or temperature rise. Do not breathe vapour. Avoid formation of respirable particles.
Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing.

Handling (Physical Aspects) : Keep away from direct sunlight.

Storage : Protect from contamination. Keep in original, vented container. When stacking, do not block cap vent. Keep in a dry, cool place.



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Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Keep away from: Strong bases Combustible material For further information see Section 10 of the safety data sheet.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	: Ensure adequate ventilation.
Personal protective equipment	
Respiratory protection	: Provide adequate ventilation. Use NIOSH approved respiratory protection.
Hand protection	: Additional protection: Rubber gloves, Neoprene gloves, Polyvinyl chloride - PVC, Protective gloves complying with EN 374.
Eye protection	: Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.
Skin and body protection	: Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.
Exposure Guidelines	
Exposure Limit Values	

None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Color	: colourless
Odor	: stinging
pH	: ca. 1 at 20 °C (68 °F)
Melting point/range	: ca. -61 - -60 °C (-78 - -76 °F)
Boiling point/boiling range	: Not applicable
Oxidizing Substance	: The product is oxidising.



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Vapour Pressure	: 27 hPa at 20 °C (68 °F) estimated
Density	: ca. 1.12 g/cm ³ at 20 °C (68 °F)
Specific gravity	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Viscosity	: no data available
Viscosity, kinematic	: ca. 1.53 mm ² /s at 20 °C (68 °F)
Evaporation rate	: no data available

SECTION 10. STABILITY AND REACTIVITY

Stability	: Decomposes on heating.
Conditions to avoid	: Exposure to sunlight. Heat
Incompatibility	: Metals Contamination, Reducing agents, Bases, Powdered metal salts, Combustible material, Flammable materials, organic solvent, alkalies
Hazardous decomposition products	: Hazardous thermal decomposition products:: Acetic acid
Hazardous reactions	: Potential for exothermic hazard If contaminated with impurities or incompatible substances, self-accelerated exothermic decomposition may occur. Decomposition in confined spaces and pipes may lead to over-pressure and bursting. Heating can release hazardous gases. Oxygen formation is possible.

SECTION 11. TOXICOLOGICAL INFORMATION

Antec - Hyperox TM	
Inhalation Acute toxicity estimate	: 11 mg/l



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Dermal LD50	:	1,147 mg/kg , Rat
Oral LD50	:	1,859 mg/kg , female, Rat
Skin irritation	:	Rabbit
Eye irritation	:	Corrosive, Rabbit The toxicological data has been taken from products of similar composition.
Sensitisation	:	Animal test did not cause sensitization by skin contact., Guinea pig Information given is based on data obtained from similar product.
Repeated dose toxicity	:	Oral Rat 1 h Symptoms: Local irritation The toxicological data has been taken from products of similar composition.

Hydrogen peroxide		
Mutagenicity	:	Animal testing did not show any mutagenic effects. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others. Experiments showed mutagenic effects in cultured bacterial cells.

Peracetic acid		
Mutagenicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Acetic acid		
Carcinogenicity	:	Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.
Mutagenicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.



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Evidence suggests this substance does not cause genetic damage in animals.

Teratogenicity : Animal testing showed no developmental toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Hydrogen peroxide

96 h LC50 : Pimephales promelas (fathead minnow) 16.4 mg/l
 72 h ErC50 : Algae 1.38 mg/l
 72 h NOEC : Algae 0.63 mg/l
 48 h EC50 : Daphnia pulex (Water flea) 2.4 mg/l
 21 d : NOEC Daphnia magna (Water flea) 0.63 mg/l

Peracetic acid

96 h LC50 : Fish 0.078 mg/l US EPA Test Guideline OPP 72-1
 Information given is based on data obtained from similar substances.
 72 h EC50 : Pseudokirchneriella subcapitata (green algae) 0.16 mg/l OECD Test Guideline 201
 96 h NOEC : Pseudokirchneriella subcapitata (green algae) 0.12 mg/l
 48 h EC50 : Daphnia magna (Water flea) 0.73 mg/l OECD Test Guideline 202
 33 d : NOEC Danio rerio (zebra fish) 0.0022 mg/l OECD Test Guideline 210
 21 d : NOEC Daphnia magna (Water flea) 0.05 mg/l OECD Test Guideline 211

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Acetic acid

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l OECD Test Guideline 203
72 h ErC50	:	Skeletonema costatum (marine diatom) > 1,000 mg/l
72 h NOEC	:	Skeletonema costatum (marine diatom) 1,000 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 1,000 mg/l OECD Test Guideline 202

Environmental Fate Antec - HyperoxTM

Biodegradability	:	98 % Readily biodegradable
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Acetic acid

Bioaccumulation	:	Bioconcentration factor (BCF) : 3.16 Bioaccumulation is unlikely.
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal	:	Dispose of as special waste in compliance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
Environmental Hazards	:	If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

TDG_ROAD	UN number	:	3149
	Proper shipping name	:	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED
	Class	:	5.1 (8)
	Packing group	:	II
	Labelling No.	:	5.1 (8)

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TDG_RAIL	UN number	: 3149
	Proper shipping name	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED
	Class	: 5.1 (8)
	Packing group	: II
IATA_C	Labelling No.	: 5.1 (8)
	UN number	: 3149
	Proper shipping name	: Hydrogen peroxide and peroxyacetic acid mixture stabilized
	Class	: 5.1 (8)
IMDG	Packing group	: II
	Labelling No.	: 5.1 (8)
	UN number	: 3149
	Proper shipping name	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
	Class	: 5.1 (8)
	Packing group	: II
	Labelling No.	: 5.1 (8)

SECTION 15. REGULATORY INFORMATION

DSL : One or more components of this product are not listed on the Domestic Substances List (DSL).

D.I.N. Number : 02240361

Remarks : Regulated under the Food and Drugs Act – WHMIS exempt.

SECTION 16. OTHER INFORMATION

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Significant change from previous version is denoted with a double bar.