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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Hydrogen Peroxide 16.6%

HY300-16

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Anchem Sales
PREPARED BY: Production Department
VERSION DATE: 01-Jan-15
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Not Available **CHEMICAL FORMULA:** H₂O₂
MOLECULAR WEIGHT: 34.01 **MATERIAL USE:** Please Refer to technical literature
SYNONYMS: Hydrogen Peroxide Solution

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Hydrogen Peroxide	15-18%	007722841	2000 mg/kg (Mouse/oral)	1437 mg/m ³ 4 hours (Rat/Vapour)	1ppm (TWA)
Water	Balance	7732-18-5	N.Av.	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: Vapors are very corrosive and irritating to the eyes. Symptoms include pain, redness and blurred vision. Splashes can cause permanent tissue destruction.

Skin: Corrosive. Symptoms of redness, pain, and severe burn can occur.

Inhalation: Vapors are corrosive and irritating to the respiratory tract. Inhalation of mist may burn the mucous membrane of the nose and throat. In severe cases, exposures may result in pulmonary edema and death.

Ingestion: Corrosive and irritating to the mouth, throat, and abdomen. Large doses may cause symptoms of abdominal pain, vomiting, and diarrhea as well as blistering or tissue destruction. Stomach distention (due to rapid liberation of oxygen), and risk of stomach perforation, convulsions, pulmonary edema, coma, possible cerebral edema (fluid on the brain), and death are possible.

SECTION 04: FIRSTAID

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. If allowed to dry on clothing, evaporation leads to concentration and increased possibility of ignition

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Inhalation, Acute: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: Pulmonary edema may be delayed for 24 to 72 hours; keep under observation. Gastric lavage may be necessary if swallowed. Analysis of body fluids (particularly gastric aspirates) using the titanium chloride reaction, if done immediately, will reveal peroxides.

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE? No

IF YES, UNDER WHICH CONDITIONS? Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases the flammability of combustible, organic and readily oxidizable materials.

FLASH POINT (TCC) (C): Not Available

FLAMMABLE LIMITS: **LEL(% BY VOL.):** Not Available **UEL(% BY VOL.):** Not Available

AUTO IGNITION TEMPERATURE (C): Not Available

EXTINGUISHING MEDIA: Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

SPECIAL PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

HAZARDOUS COMBUSTION PRODUCTS: Not Available

UNUSUAL FIRE AND EXPLOSION HAZARDS Not Available

SENSITIVITY TO STATIC DISCHARGE: Not Available

SENSITIVITY TO MECHANICAL IMPACT: Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: CAUTION! Caustic material. Causes fires with organic material. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not return spilled material to original container. Larger Spills: Dilute with a large amount of water and hold in a pond or dyked area until the peroxide decomposes followed by discharge into a suitable treatment system. May be neutralized with sodium metabisulfite or sodium sulfite after diluting to 5-10% peroxide. Do not flush undiluted material to sewer. This oxidizing material can increase the flammability of adjacent combustible materials. Empty containers should be rinsed with water before discarding.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements
 Store in a cool (< 35C), well-ventilated dark area separated from combustible substances, reducing agents, strong bases, organics. Do not store on wooden shelves or floors. Suggest rotation of stock. Containers must be vented, but check periodically for bulging containers which can burst from pressure. Protect containers from physical damage, contamination, heat and incompatibles. Contamination from any source (dust, metals) may cause rapid decomposition with generation of large quantities of oxygen gas and high pressures. Rinse empty containers thoroughly with clean water. Glass, polyethylene, stainless steel and aluminum are recommended materials for storage containers. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE: Impervious chemical resistant gloves.

RESPIRATOR/TYPE: A NIOSH approved self-contained breathing apparatus.

EYE/TYPE: Safety glasses.

OTHER/TYPE: Not Available

ENGINEERING CONTROL A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE:	Clear, colourless liquid	ODOUR THRESHOLD:	N. Av.
ODOUR:	Pungent odour	VAPOUR DENSITY (Air=1):	N. App.
VAPOUR PRESSURE (mm Hg @ 20C):	23	SPECIFIC GRAVITY:	1.06
EVAPORATION RATE (Ether = 1):	>1	FREEZING POINT (C):	N.Av.
BOILING POINT (C):	100	% VOLATILE (WT):	100%
Ph (% SOLUTION):	< 3.5		
SOLUBILITY IN WATER (% W/W)	100%		

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Yes

IF NO, UNDER WHICH CONDITIONS?: Normally stable if uncontaminated, but slowly decomposes to release oxygen. Unstable with heat, may result in dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper. Avoid light and keep in a closed but vented container to prevent evaporation (concentration) and contamination.

INCOMPATIBILITY WITH OTHER SUBSTANCES Yes

IF YES, WITH WHICH ONES: Heat, reducing agents, organic materials, dirt, alkalis, rust, and many metals. Spontaneous combustion may occur on standing in contact with readily flammable materials.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS: Avoid light and incompatibles. Avoid excess heat and contact with combustible or organic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes to water and oxygen with rapid heat release. Use vented containers. The solution can decompose violently upon heating.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL	N.Av.
LC 50 OF MATERIAL, SPECIES AND ROUTE	N.Av.
LD 50 OF MATERIAL, SPECIES AND ROUTE	N.Av.
CARCINOGENICITY OF MATERIAL	Investigated as a tumorigen and mutagen.
REPRODUCTIVE EFFECTS:	N. Av.
IRRITANCY OF MATERIAL	N.Av.
SENSITIZING CAPABILITY OF MATERIAL	N.Av.
SYNERGISTIC MATERIALS:	N.Av.

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: N.Av.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. Provincial and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, provincial and local requirements.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION: Class 5.1, Hydrogen Peroxide, Aqueous Solution

UN NUMBER: 2984

PACKING GROUP: III

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: N. Av.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

For updated copies of an MSDS, please contact Anchem Sales at the address/phone number on Page 1 or fax the MSDS Co-ordinator at (519) 451-4593.

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