

MATERIAL SAFETY DATA SHEET

Curtis/GlenChem Corp.

Eddystone Industrial Park
2000 Industrial Highway
Eddystone, PA 19022-1513

Product: **HYPER-STA 35**

Daytime Telephone: (610) 876-9906
24 Hour Emergency: CHEMTREC® (800) 424-9300

MSDS No.: G5700 - Rev. 3.1
Replaces - 3.0
Date: 08/96
08/94

////////////////////////////////////

-- SECTION 01 - IDENTIFICATION AND INFORMATION --

Product or Trade Name:	HYPER-STA 35	HMIS <u>Hazard Rating:</u>		<u>Legend:</u>
Chemical Name/Synonym:	STABILIZED SODIUM HYDROGEN PEROXIDE			
Chemical Family:	HYDROGEN PEROXIDE SOLUTION	Health:.....	2	0 - Least
Formula	H ₂ O ₂ (compounded with stabilizers)	Fire:.....	0	1 - Slight
Product Code:.....	G5700	Reactivity:.....	1	2 - Moderate
				3 - High
				4 - Extreme

Product Description: OXIDIZER: Sodium hydrogen peroxide solution for oxidizing organics in water systems.

-- SECTION 02 - PHYSICAL DATA --

Boiling Point:	> 225°F (108°C)	Solubility in Water:	1100% by wt.
Vapor Pressure:	17.4 mmHg @ 77°F (25°C)	Specific Gravity:	1.12 (H ₂ O=1)
Vapor Density:	> 1 (AIR=1)	% Volatile by Volume:	~ 66 as water vapor
Appearance:	Clear, water-white liquid	Odor:	Slightly pungent, irritating
pH:	Not Tested		

-- SECTION 03 - HAZARDOUS COMPONENTS --

CHEMICAL NAME	CAS #	% Range	OSHA PEL	ACGIH TLV
hydrogen peroxide	7722-84-1	32-35	1 ppm, 8 hr. TWA	1 ppm, 8 hr. TWA
Inert and/or non-hazardous components	-----	66	-----	-----

-- SECTION 04 - FIRE AND EXPLOSION HAZARD DATA --

Flash Point: Will not burn, but decomposition, which may be caused by heat or contamination will release oxygen which will increase the explosive limit range and burning rate of flammable vapors.

Extinguishing Media: Use only water.

Special Fire Fighting Procedures: Use self-contained breathing apparatus; water may be used to cool adjacent containers.

-- SECTION 05 - REACTIVITY DATA --

Stability: Unstable in heat or if contaminated; liberation of oxygen gas may result in dangerous pressures.

Incompatibility: Strong oxidizers such as cyanides, nitric acid, potassium permanganate, and many other oxidizing and reducing agents. Mixtures with both organics and some acids may be especially reactive. May react dangerously with rust, dust, dirt, iron, copper, heavy metals or their salts (such as mercuric oxide or chloride), alkalis, and with organic materials (especially vinyl monomers).

Hazardous Decomposition Products: Contamination or heat may cause self-accelerating exothermic decomposition with oxygen gas and steam release that can cause dangerous pressures.

Hazardous Polymerization: Will not occur.

-- SECTION 06 - SPILL, LEAK, AND DISPOSAL PROCEDURES --

Small Spills: Flush with significant quantity of water to dilute as effectively as possible. Drain to an approved chemical sewer or wastewater

treatment system, including municipal sewers if approved. May be destroyed with sodium metabisulfite or sodium sulfite at 1.9 lbs SO₂ equivalent per lb. of 5-10% peroxide.

Large Spills: Prevent spread of spill by dyking. Do not salvage uncontaminated material. The CERCLA Reportable Quantity is 100 lbs for 20-51% solutions (release of an unlisted Hazardous Waste characteristic of ignitibility).

- Continued -

Page 2 -- HYPER-STA 35 msds, continued

Waste Disposal: If approved, it may be diluted and drained to a municipal sewer or waste treatment plant. It may be diluted and drained through a scrap metal pit (iron, copper, etc.) to reduce peroxide concentration. Hydrogen peroxide may be a RCRA regulated hazardous waste upon disposal due to the oxidizing characteristic under the ignitibility category, but not likely at 33%.

ALWAYS DISPOSE OF MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES FOR THAT TYPE OF MATERIAL

-- SECTION 07 - HEALTH HAZARD DATA --

EYE CONTACT: May cause irritation or severe burn resulting in eye damage with ulceration of the cornea, and may cause irreversible eye damage, including blindness.

SKIN CONTACT: Skin exposure may result in bleaching of the skin and hair, and may cause irritation with discomfort or rash. Prolonged exposure may result in skin burns or ulceration.

INHALATION: Inhalation may cause irritation of the upper respiratory passages or nonspecific discomfort such as nausea, headache, or weakness. Prolonged exposure may lead to temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath; or fatality from gross overexposure, or lack of oxygen.

INGESTION: Ingestion may cause gastrointestinal tract irritation, abdominal pain, heartburn, nausea, vomiting and diarrhea. Extreme overexposure may cause gastrointestinal tract bleeding, red blood cell destruction, or gas embolism.

Gross overexposure may be fatal.

PREEXISTING CONDITIONS: Persons with preexisting diseases of the skin, eyes, or lungs may have increased susceptibility to the toxicity of excessive exposures.

CARCINOGENICITY INFO.: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by the IARC, NTP, OSHA or ACGIH as a carcinogen. The FDA and other organizations have reviewed a study involving mice who were administered high oral doses and concluded there is insufficient evidence that hydrogen peroxide is carcinogenic. Another unpublished long-term study with rats revealed no evidence of carcinogenicity. Hydrogen peroxide produced genetic damage to bacterial and mammalian cells in culture, but a study in animals indicated it did not product genetic damage. Limited tests in animals demonstrate no reproductive toxicity.

ANIMAL DATA: Inhalation 8 Hr. LC50: > 2,000 ppm in rats (90% H₂O₂).
Skin absorption LD50: 700 mg/kg (90% H₂O₂), 9,200 mg/kg (70% H₂O₂) in rabbits.
Oral LD50: 75 mg/kg (70% H₂O₂) in rats.

-- SECTION 08 - FIRST AID --

EYES: Flush with water for a minimum of 15 minutes (industry safety standard for all materials). Seek medical attention if irritation persists.

SKIN: Flush with water; wash with soap and water after handling.

INHALATION: Remove to fresh air.

INGESTION: DO NOT INDUCE VOMITING - Seek medical attention. Never give anything by mouth if unconscious

-- SECTION 09 - SPECIAL HANDLING INFORMATION --

VENTILATION: Provide ventilation sufficient to maintain below the OSHA PEL and ACGIH TLV of 1 ppm.

RESPIRATORY PROTECTION: NIOSH approved respirator for mist conditions, or if used in poor ventilation.

PROTECTIVE CLOTHING: Chemical resistant gloves when mixing or handling. Clothing sufficient to prevent personal contact.

EYE PROTECTION: Tight fitting or chemical workers goggles if splashing or over-spraying is anticipated.

-- SECTION 10 - REGULATORY AND ADDITIONAL INFORMATION --

HANDLING AND STORAGE: Do not breathe vapors or mist. Do not allow contact with eyes, or leave in contact with skin. Wash contaminated clothing prior to re-use. Do not allow contact with oxidizers. Empty Containers: Do not reuse empty containers for storage of foodstuffs or potable water. For returnable

drums or drums set aside for reconditioner, empty drums as completely as possible and fit bungs tightly with undamaged closures. D.O.T. regulations forbid transportation of partially filled and unclosed containers.

D.O.T.: Shipping Classification: HYDROGEN PEROXIDE, aqueous solutions with not less than 20% but not more than 40% hydrogen peroxide, stabilized as necessary, 5.1, 8, UN2014, PGII; ERG-140

TSCA - The ingredients in this material are listed on the TSCA Inventory.

SARA Title III Information: A) Sections 311/312 - Listed as: Acute = Yes; Chronic = No; Fire = No; Reactivity = Yes; Pressure = Yes; B) Section 313 - Not Listed; C) Section 302 - Not Listed as an Extremely Hazardous Substance at this concentration level.

CERCLA Information: Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs of 100 lbs.

Abbreviations Used in this Material Safety Data Sheet: < = Less Than; > = Greater Than; N/A = Not Applicable; N/E = Not Established; N/L = Not Listed; N/D = Not Determined; TWA = Time Weighted Average; STEL= Short Term Exposure Limit; PEL = Permissible Exposure Limit; NIOSH = National Institute of Occupational Safety & Health; OSHA = Occupational Safety & Health Administration; ACGIH = American Conference of Government and Industrial Hygienists; NTP = National Toxicology Program; IARC = International Agency for the Registration of Carcinogens; TSCA = Toxic Substance Control Act; SARA = Superfund Amendment Reauthorization Act; RQs = Reportable Quantities; CERCLA = Comprehensive Environmental Response Compensation and Liability Act; NRC = National Response Center; RCRA = Resource Recovery and Conservation Act.

The information herein is given in good faith, but no warranty, express or implied, is made.