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Custom Industrial Chemistries

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CESCO HYDROTREAT 1017.5-OC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : CESCO HYDROTREAT 1017.5-OC
 PRODUCT USE : Oxidizer
 PRODUCT DESCRIPTION : Clear, colorless liquid with slight acrid odor.
 WHMIS CLASSIFICATION: C - Oxidizing Material

MANUFACTURER : CESCO SOLUTIONS, INC.
 ADDRESS : 2227 Midway Lane, Bellingham, WA 98226

EMERGENCY PHONE : 1-800-424-9300
 INFORMATION PHONE : (360) 733-7478

2. HAZARDS IDENTIFICATION

SIGNAL WORD: Danger



HAZARD STATEMENTS: Causes severe skin burns and eye damage.
 Harmful if inhaled or ingested.
 May intensify fire; oxidizer,

POTENTIAL HEALTH EFFECTS

EYES:

Causes severe burns to eyes. Eye damage may be permanent.

SKIN:

Corrosive. Symptoms of redness, pain and severe burn can result.

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 perforations, convulsions, pulmonary edema, coma, possible cerebral edema (fluid on the brain) and death are possible.

INHALATION:

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

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

CHRONIC (CANCER) INFORMATION:

There is no data available on the chronic effects of ingestion of this material.

TERATOLOGY (BIRTH DEFECT) INFORMATION:

No Information.

REPRODUCTION INFORMATION:

No Information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component/Exposure Limits	CAS#	WT%
HYDROGEN PEROXIDE	7722-84-1	40 - 50%
..... OSHA PEL-1MG/M3	ACGIH TLV-1MG/M3	HAZARD-CORROSIVE

4. FIRST AID MEASURES

EYES:

Wash eyes immediately with plenty of running water for 15-20 minutes, or until no evidence of chemical remains, including under eyelids. Remove any contact lenses at once. Speed in beginning the eye wash is essential if permanent injury is to be avoided. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Flush contaminated skin with water for 15 minutes, or until no evidence of chemical remains. Remove contaminated clothing under the shower immediately. Prolong washing in serious cases until doctor arrives. GET MEDICAL CARE FOR EVIDENCE OF BURNING. If evidence of chemical burn exists, cover with sterile, dry dressing. Bandage securely, but not too tightly.

INGESTION:

Do not induce vomiting. Drink a large glass of water. Treat symptomatically and supportively. GET MEDICAL ATTENTION IMMEDIATELY. CAUTION: IF UNCONSCIOUS OR HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER.

INHALATION:

Remove from exposure to mist. If breathing has stopped, provide artificial respiration. Keep the person warm and at rest. OBTAIN IMMEDIATE MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: N/AV

Method: N/AV

FLAMMABLE LIMITS: Lower: N/A Upper: N/A

HAZARD COMMUNICATION:

OSHA Standard 29CFR 1910.1200 requires that all information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this SDS available to your employees.

HAZARDOUS COMBUSTION PRODUCTS:

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

EXTINGUISHING MEDIA:

Use large quantities of water. Dike to contain.

FIREFIGHTING INSTRUCTIONS:

Move containers from fire if possible, cool containers exposed to flames with water from side until well after fire is out.

Do not use water directly on material. If large amounts of combustible material are involved, use water spray or fog in flooding amounts. Solid streams may be ineffective. Use water spray to absorb corrosive vapors. Cool containers with flooding amounts of water from as far a distance as possible, keep upwind. SCBA recommended: smother to exclude air. Firefighters should wear self-contained breathing apparatus and bunker gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FIRE: Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases flammability of combustible, organic and readily oxidizable material. **EXPLOSION:** Contact with oxidizable substances may cause extremely violent combustion. Drying of concentrated hydrogen peroxide on clothing or other combustible material may cause fire or explosion. Sealed containers may rupture when heated.

SENSITIVE TO STATIC DISCHARGE:

No Information

SENSITIVE TO IMPACT

None known.

6. ACCIDENTAL RELEASE MEASURES

CAUTION! Corrosive material to humans. 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. Large Spills: Dilute with a large amount of water and hold in a pond or diked area until 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 flammability of adjacent combustible materials.

7. HANDLING AND STORAGE

Store in cool (<35C), well ventilated dark area separated from combustible substances, reducing agents, strong bases and 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 this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide natural or mechanical ventilation to minimize exposure, especially where possibility of mist formation exists. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design exhaust systems.

RESPIRATORY PROTECTION:

Have available and wear as appropriate for exposure limits: NIOSH/MSHA approved respirator. Supplied-air respirator with a full face-piece, helmet or hood: self-contained breathing apparatus with a full face-piece.

SKIN PROTECTION:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated contact with this substance.

EYE PROTECTION:

Employee must wear splash proof and dust-resistant safety goggles or face-shield to prevent eye contact with this substance. DO NOT WEAR CONTACT LENSES.

PROTECTIVE GLOVES:

Employee must wear appropriate protective gloves to prevent contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 226F
APPEARANCE & ODOR: Clear, colorless liquid with slight acrid odor.
VAPOR DENSITY: N/AV
VAPOR PRESSURE: N/AV
SPECIFIC GRAVITY: 1.052
pH: 3-4
SOLUBILITY IN WATER: Complete.
VOC: N/AV

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID):

Avoid excess heat and contact with combustible or organic materials, light and incompatibles.

INCOMPATIBILITY:

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

HAZARDOUS DECOMPOSITION PRODUCTS:

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

HAZARDOUS POLYMERIZATION:

Has not been reported to occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC/CARCINOGENICITY:

N/AV

TERATOLOGY:

N/AV

REPRODUCTION:

N/AV

MUTAGENICITY:

N/AV

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Carp LC50: 42 mg/L (48 hour) Daphnia EC50: 2.4 mg/L (48 hour)

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Whatever cannot be saved for recovery or recycling should be handled as a hazardous waster and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change waste management options. Consult state and local disposal guidelines.

RCRA (RESOURCE CONSERVATION & RECOVERY ACT) REQUIREMENTS:

Oxidizers meet the criteria of ignitable waste. 40 CFR261.21

CLEAN WATER ACT REQUIREMENTS:

No information.

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14. TRANSPORT INFORMATION

DOT CLASSIFICATION (USA) :

UN 2984, Hydrogen peroxide, aqueous solution with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary), Class 5.1, PGIII.

TDG REGULATIONS (CANADA) :

UN 2984, Hydrogen peroxide, aqueous solution with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary), Class 5.1, PGIII.

15. REGULATORY INFORMATION:

U.S. FEDERAL REGULATIONS:

SARA TITLE III (SUPERFUND AMENDMENTS & REAUTHORIZATION ACT) :

302/304 EXTREMELY HAZARDOUS SUBSTANCES:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 302 requires notification of the State Emergency Response Commission (SERC) and Local Emergency Planning Committee (LEPC) of the presence of Extremely Hazardous Substances (EHS), 40 CFR 355 Appendix A, in amounts in excess of the threshold planning quantity (TPQ). Section 304 requires notification of SERC and LEPC of releases involving a RQ of an EHS or CERCLA Hazardous Substance. Extremely Hazardous Substances contained in this product are:

Hydrogen Peroxide is considered a CERCLA Hazardous substance with a reportable quantity (RQ) of 11,500 lbs of CESCO HYDROTREAT 1017.5-OC.

311/312 HAZARD CATEGORIES:

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: An Immediate (Acute) Health Hazard. A Fire Hazard. A Reactive Hazard.

313 REPORTABLE INGREDIENTS:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDS's that are copied or distributed for this material. Refer to Section 3, HAZARDOUS INGREDIENTS/SARA III INFORMATION, the components that are subject to reporting are designated by an asterix (*).

TSCA (TOXIC SUBSTANCE CONTROL ACT) STATUS:

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

RCRA (RESOURCE CONSERVATION & RECOVERY ACT) REQUIREMENTS:

N/AV

INTERNATIONAL REGULATIONS:

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CANADIAN WHMIS:

Classification C, E, D2A

STATE REGULATIONS:

16. OTHER INFORMATION

NFPA RATINGS:

HEALTH (H): 2 FIRE (F): 0 REACTIVITY (R): 3

HMIS CODES:

HEALTH (H): 2 FIRE (F): 0 PHYSICAL HAZARD (P): 3

SDS REVISION DATE: November 4, 2020

NAME OF PREPARER: Environmental, Health & Safety Department.

CONTACT PHONE NUMBER: (360) 733-7478

MANUFACTURER DISCLAIMER:

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