



MATERIAL SAFETY

DATA SHEET

Copyright: 2003
2070

Effective Date: 8/29/05 Supercedes: 6/28/04

Emergency #: 405-745-

SECTION I. IDENTIFICATION

PRODUCT NAME: **MICRO-CLEEN 12-7**

CHEMICAL NAME & SYNONYMS: Polyethoxylated tert-dodecyl mercaptan

PROCESSORS NAME: Chemical Products Industries, Inc., 7649 Southwest 34th Street,
Oklahoma City, OK 73179, (405/ 745-2070)

CAS #: 9004-83-5

CHEMICAL FAMILY: Ethoxylated mercaptan

CHEMICAL FORMULA: Confidential

SECTION II. COMPONENTS

INGREDIENTS	CAS NUMBER	% BY WT
-Nonionic Surface Active Agents	9004-83-5	99%
-Water	7732-18-5	Balance

SECTION III. HEALTH HAZARDS

NFPA 704 CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious and 4=Severe

HEALTH (BLUE)	FLAMMABILITY (RED)	REACTIVITY (YELLOW)	PROTECTION
NFPA: 1	NFPA: 1	NFPA: 0	NFPA: 0
HMIS: 1	HMIS: 1	HMIS: 0	HMIS: B

ACUTE EFFECTS OF OVEREXPOSURE (OSHA 1910.1200 Hazard Communication Standard):

- EYES: Severely irritating, similar to most soaps and hair shampoo products under test conditions used.
- SKIN: Brief exposures are not irritating. May aggravate existing dermatitis.
- INHALATION: Breathing mist may cause irritation to upper respiratory tract.
- INGESTION: May cause gastrointestinal upset, weakness, sedation, and unconsciousness.

CHRONIC EFFECTS OF OVEREXPOSURE: Repeated or prolonged skin contact may produce progressively severe skin irritation, as well as lethargy and gastrointestinal upset.

OTHER HEALTH EFFECTS (MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE): People sensitive to sulfur compounds can experience aggravated skin irritation. No other applicable information is known.

SECTION IV. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

- EYES: Immediately flush with water for at least 15 minutes. If irritation persists or adverse symptoms develop, seek medical attention.
- SKIN: Wash skin with soap and water for at least 15 minutes. If irritation persists or adverse symptoms develop, seek medical attention.
- INHALATION: Remove subject to fresh air. If breathing is difficult, give oxygen. If breathing ceases, give artificial respiration followed by oxygen. Immediately seek medical attention.
- INGESTION: Give large quantities of water. Do not induce vomiting. Seek medical attention.

SECTION V. FIRE AND EXPLOSION HAZARD DATA

MICRO-CLEEN 12-7 is an organic liquid with a flash point of 305 degrees F. Use dry chemical, foam, water or carbon dioxide extinguishers. Vapors containing surface active agents, carbon dioxide, sulfur dioxide and unknown decomposition products may be formed. These materials should be considered irritants. Fire fighters should wear a self-contained breathing apparatus and full protective clothing. Cool closed containers with water to avoid bursting from developed pressure.

SECTION VI. SPILL, LEAK & DISPOSAL PROCEDURES

Protect from sources of heat and ignition. Evacuate area of all unnecessary personnel. Floors may be slippery. Use care to avoid falling. Contain spills immediately with inert material to prevent entry to waterways and sewers. Transfer liquids and solid diking materials to suitable containers for recovery or disposal.

SECTION VII. HANDLING AND STORAGE

No special handling is required under normal use. Avoid getting on skin, in eyes or on clothing. Avoid breathing vapors, mists of fumes. Wash hands and other contaminated areas thoroughly with soap and water after handling this product and before eating or smoking. Wash contaminated clothing thoroughly before reuse. Eye wash stations should be available to employees.

Store in well-ventilated area in a closed container. Keep away from heat, sparks and flames. Store at temperatures above freezing and below 120°F. Drain equipment and flush with water to clean.

MATERIALS TO AVOID: None known.

SECTION VIII. PERSONAL PROTECTION

Avoid skin contact by wearing impermeable gloves. If mists or vapors are generated, use NIOSH/MSHA approved respirators. Where splashing may occur wear goggles or face shield, chemical resistant clothing and rubber boots. Wash contaminated clothing before reuse.

SECTION IX. - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear liquid
ODOR:	Slight, nondescript
HLB	11
pH: (Typical):	6-7 @5%
BOILING POINT, 760 mm Hg:	above 212 Deg. F.
VAPOR PRESSURE, at 20 deg. C.:	< 0.1 mm Hg
SOLUBILITY IN WATER:	Slight
SPECIFIC GRAVITY (H ₂ O = 1):	1.05
PERCENT VOLATILE by weight:	< 2
VISCOSITY, CS:	> water
CLOUD POINT Deg F (1% sol):	58 (15 deg. C)
FLASH POINT (Penske C.C.):	305 deg F.

SECTION X. STABILITY AND REACTIVITY

MICRO-CLEEN 12-7 is stable and non-reactive under normal use over a wide range of pH. The organic content reacts with oxidizers producing heat and oxidation by-products. Atomization, vaporization or combustion forms aerosols which can carry the surface active agents and combustion products into the atmosphere. Hazardous polymerization will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

This product is known to be a mild allergic sensitizer and a mild primary irritant. OSHA PEL and ACGIH TLV have not been established. Do not take internally. Avoid breathing mist. Minimize skin contact.

HEALTH HAZARD CATEGORIES: None of the product's ingredients are found on any list of hazardous, carcinogenic, or banned chemical agents or materials generated by them.

SECTION XII. ECOLOGICAL INFORMATION

MICRO-CLEEN 12-7 is inherently biodegradable and non-toxic to sewage organisms at moderate dilution..

- At 20-25 PPM **MICRO-CLEEN 12-7** is non-inhibitory to microbes.
- At concentrations less than 10,000 ppm **MICRO-CLEEN 12-7** is non-toxic to sewage organisms.
- LC50 values for Fathead minnows is 64 mg/l at 96 hours.

<u>Oxygen Demand (1)</u>	<u>Method</u>
BOD (5 day): 253.6 mg DO/g	EPA 405.1
BOD (20 day): 1,029 mg DO/g	EPA 405.1

(1) BOD = Biological oxygen demand; COD = Chemical oxygen demand; DO/g = Dissolved oxygen/ gram

SECTION XIII. DISPOSAL CONSIDERATIONS

Keep out of lakes, streams and water ways. Small quantities may be flushed to sanitary or industrial sewer. Disposal of large quantities should comply with all federal, state and local guidelines. Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

SECTION XIV. TRANSPORT INFORMATION

PROPER DOT SHIPPING NAME:	Non Regulated
- DOT HAZARD CLASS:	None
- DOT ID# and Packing Group	Not applicable
- EMERGENCY RESPONSE GUIDE:	Not applicable
- PRODUCT NUMBER:	International Harmonic System Code is 3402.
- MARKING:	None Required
- LABEL:	None Required
- PLACARD for bulk only:	None Required

SECTION XV. REGULATORY INFORMATION

FEDERAL REPORTING REQUIREMENTS:

SARA Title III per 40 CFR 355 (SAME AS sara 302, 304, 311, and 312):	None
SARA Title III per 40 CFR 372 (for SARA313):	None
SARA Title III, Sec 313, Part 372	None
CERCLA per 40 CFR 302.4	None

This product is non-hazardous under the OSHA Hazard Communication Standard 29 CFR 1910-1200. All components are on the Confidential or Non-Confidential TSCA Inventory List. None have special toxic substances warning requirements.

State Right -To-Know Law hazardous substances at levels requiring listing:

California: None per Proposition 65
Massachusetts: None per the Substance List
Pennsylvania: None per the Hazardous Substance List

SECTION XVI. OTHER INFORMATION

APPROVED BY: _____
 Floyd E. Farha, Ph.D.

DATE: 8/29/05
SUPERCEDES: 6/28/04

All terms and abbreviations have been defined in various government publications, or are standard chemical terms. The data and recommendations herein are based upon our own research and the research of others, and are believed to be accurate. However no warrantee or guarantee of their accuracy is made. The product is distributed without warrantee, expressed or implied, including the limited warranties of merchantability of fitness for a particular purpose.

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