

ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301

SCHOOLCRAFT COLLEGE (343) 18600 HAGGERTY RD (RECEIVING DOCK) LIVONIA, MI 48152-2696

# MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

02/19/98

ISSUE DATE: 05/04/95

SUPERSEDES:

ZEP LEMON CLEAR DEGREASER NA

PRODUCT NO.: 0659

SECTION I - EMERGENCY CONTACTS

**TELEPHONE:** 

(404) 352-1680

BETWEEN 8:00 AM - 5:00 PM (EST)

MEDICAL EMERGENCY:

(770) 439-4200 (770) 432-2873

NON-OFFICE HOURS, WEEKENDS AND HOLIDAYS, PLEASE CALL YOUR

LOCAL POISON CONTROL

(770) 424-4789 (770) 392-1480

(770) 455-8160

(770) 552-8836

TRANSPORTATION EMERGENCY:

(770) 922-0923 CHEMTREC:

1-800-424-9300 TOLL-FREE - ALL CALLS RECORDED

DISTRICT OF COLUMBIA: (202) 483-7616

ALL CALLS RECORDED

ESIGNATIONS	(PPM)	(SEE REVERSE)	PROD.
ESIGNATIONS	(, , , , , , ,	(022 114121102)	
TROPRIETARY, BIODEGRADABLE, HIGH-FLASH SOLVENT CAS# - PROPRIETARY; OSHA PEL - N/D	N/D	IRR	75-85
" PROPRIETARY ACETATE ESTER " CAS# - PROPRIETARY; RTECS# - NONE; OSHA PEL - N/D	N/D	EIR	5-15
"NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL "npe; poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy;	N/D	EIR	5-15
CAS# 9016-45-9; RTECS# MD0900000; OSHA PEL-N/D.			

# SECTION III - HEALTH HAZARD DATA

Special Note: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

Acute Effects of Overexposure:

DE

This product can be an eye irritant. Inflammation of eye tissue is characterized by redness, watering, and/or itching. Exposure may aggravate existing skin disorders such as dermatitis.

Skin which is repeatedly defatted by contact with this product may be more susceptible to irritation, infection, or dermatitis. None of the hazardous ingredients are listed cinogens by IARC, NTP, & OSHA

**PEL/TLV**: Not established

Primary Routes of Entry: Inh.

# HMIS Codes: HEALTH 2; FLAM. 1; REACT. 0; PERS. PROTECT. B ; CHRONIC HAZ. NO

Skin: Wash contaminated skin thoroughly with soap or a mild detergent. Apply a skin cream with landlin. Get medical attention if irritation persists.

Eyes: Inhale: Move exposed person to fresh air. If irritation persists, get medical attention promptly.

Ingest: If swallowed, do not induce vomiting. If vomiting occurs, keep head below hip level. Get emergency medical attention immediately

# SECTION IV - SPECIAL PROTECTION INFORMATION

Protective Clothing:

The use of neoprene, nitrile or natural rubber gloves is strongly recommended, especially for prolonged contact.

Eye Protection:

Wear tight-fitting splash-proof safety glasses especially if contact lenses are worn.

Respiratory Protection: Ventilation:

No extra measures are needed if ventilation is adequate. Ventilation should be equivalent to outdoors. Use exhaust fans and open windows in enclosed spaces.

SECTION V - PHYSICAL DATA

SECTION VI - FIRE AND EXPLOSION DATA

Boiling Point (°F): Percent Volatile by Volume (%): 92.4 Solubility in Water:

466-484 **EMULSIFIES** Appearance and Odor: A CLEAR, COLORLESS LIQUID WITH A LIGHT LEMON ODOR.

Specific Gravity: 0.805 Vapor Density (air = 1): N/D pH (concentrate): N/A

Vapor Pressure (mmHg): Evaporation Rate (BUTYL = 1): pH (use dilution of N/A):

N/D 0.0 N/A

Flash Point (°F) (method used): > 200 (TCC) Flammable Limits:

LEL N/D UEL N/D

**Extinguishing Media:** Special Fire Fighting: Unusual Fire Hazards: Carbon dioxide, dry chemical, water fog, foam. Wear self-contained positive pres. breathing apparatus.

## SECTION VII - REACTIVITY DATA

Stability:

Stable

Strong alkalis and oxidizing agents. Incompatibility (avoid):

Polymerization: Will not occur

Carbon dioxide, carbon monoxide, and other unidentified organic compounds. Hazardous Decomposition:

## SECTION VIII - SPILL AND DISPOSAL PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Observe safety procedures in section 4 & 9 during clean-up. Absorb spill on inert absorbent material (eg Zep-O-Zorb). Pick up and place residue in a suitable was container. Wash spill area thoroughly with a detergent solution and rinse well with water.

Waste Disposal Method:

Liquid wastes are not permitted in landfills. Product is not considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an inert absorbent material (eg Zep-O-Zorb), drummed, and taken to a chemical or industrial landfill. Pretreatment may be required before landfilling. Consult local, state, or federal agencies for proper disposal in your area.

RCRA Hazardous Waste Numbers: N/A

# SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken When Handling and Storing:

Store tightly closed container in a dry area at temps, between 40-120 degrees F. Keep product away from skin and eyes. Do not breathe spray mists or vapors. Clothing or shoes which become contaminated with substance should be removed promptly and not reworn until thoroughly cleaned. Keep out of the reach of children

# SECTION X - TRANSPORTATION DATA

**DOT Label/Placard: NONE** 

DOT PROPER SHIPPING NAME Small sizes one gallon or less may be shipped as ORM-D: NONE

DOT Hazard Class: N/A

DOT I.D. Number: N/A

EPA TSCA Chemical Inventory: ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR Part 117 substance (RQ in a single container):

#### NOTICE

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Co. is pleased to be of service to you by Supplying this Material Salety Data Sheet for your files. Zep Manufacturing is concerned for your health and salety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Salety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers nust be sent to a drum reconditioner before reuse

# TERMS AND ABBREVIATIONS USED IN THE MSDS: BY SECTION ALPHABETICALLY:

FCTION II: HAZARDOUS INGREDIENTS

Carcinogen - A chemical listed by the National Toxicol-Program (NTP), the International Agency for Research ancer (IARC) or OSHA as a definite or possible human er causing agent.

#: Chemical Abstract Services Registry Number - A versally accepted numbering system for chemical sub-

C3L: Combustible - At temperatures between 100°F and 200°F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

CNS: Central Nervous System depressant reduces the activity of the brain and spinal cord.

COR: Corrosive - Causes irreversible alterations in living tissue (e.g. burns).

DESIGNATIONS: Chemical and common names of hazardous

EIR: Eye Irritant Only - Causes reversible reddening and/or

EIR: Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.

EXPOSURE LIMITS: The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACCIH TLV's, and OSHA PEL's (TWA, STEL and ceiling limits)

ACGIH: American Conference of Governmental Industrial

CEILING: The concentration that should not be exceeded OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit- A set of time weighted

average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

PPM: Parts per million · unit of measure for exposure

limits

(S) SKIN; Skin contact with substance can contribute to overall exposure

STEL: Short Term Exposure Limit- Maximum concentration

for a continuous 15-minute exposure period. TLV; Threshold Limit Value - A set of time weighted aver-

age exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week

FBL: Flammable - At temperatures under 100°F, chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS: Chemical substances deter-

mined to be potential health or physical hazards by the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX: Highly toxic - the probable lethal dose for 70 kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

IRR: Irritant - Causes reversible effects in living tissues (e.g.

inflammation) - primarily skin and eyes.

N/A: Not Applicable - Category is not appropriate for this

N/D: Not Determined - Insufficient information for a deter-

mination for this item.

RTECS #: Registry of Toxic Effects of Chemical Substances
- an unreviewed listing of published toxicology data on chemical substances.

SARA: Superfund Amendments and Reauthorization Act Section 313 designates chemicals for possible reporting for the Toxics Release Inventory

SEN: Sensitizer - Causes allergic reaction after repeated exposure. TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.)

man is one ounce (2 tablespoons) or more.

#### SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immeafter exposure or within a relatively short time. CHRONIC EFFECT; Adverse effects that are most likely to

occur from repeated exposure over a long period of time. EST'D PEUTLY: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the

ACGIH, pertains to airborne concentrations from the prod-uct as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

HMIS CODES: Hazardous Material Identification System - a

rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. A chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment.

PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a general-ized-systemic or specific-organ toxic effect.

ING; Ingestion - A primary route of exposure through swallowing of material.

INH: Inhalation - A primary route of exposure through breathing of vapors.

SKIN: A primary route of exposure through contact with

the skin.

#### SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks. MSHA: Mine Safety and Health Administration NIOSH: National Institute for Occupational Safety and Health.

SECTION V: PHYSICAL DATA

EVAPORATION RATE: it refers to the rate of change from the liquid state to the vapor state at ambient temperature and ressure in comparison to a given substance (e.g. water). pH: A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline

PERCENT VOLATILE: The percentage of the product (liquid or solid) that will evaporate at 212°F and ambient pressure. SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products expeced to be produced upon product decomposition or fire.

INCOMPATIBILITY: Material contact and conditions to avoid to prevent hazardous reactions.

POLYMERIZATION: Indicates the tendency of the product's molecules to combine in a chemical reaction releasing ex

cess pressure and heat.

STABILITY: Indicates the susceptibility of the product to spontaneously and dangerously decompose.

#### SECTION VIII- SPILL AND DISPOSAL PROCEDURES

RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the origina container.

## SECTION X: TRANSPORTATION DATA

CWA: Clean Water Act

RQ; Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies. TSCA: Toxic Substances Control Act - a federal law requir ing all commercial chemical substances to appear on an inventory maintained by the EPA.

# DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaran teed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the product's label and Material Safety Data Sheet.

(Notice Revised 8/91)

