

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

GLOUCESTER CITY SCHOOL GARAGE (379) **RT 17** GLOUCESTER, VA 23061

MATERIAL SAFETY DATA SHEE

AND SAFE HANDLING AND DISPOSAL INFORMATION

05/16/95

ISSUE DATE: 06/15/88 **SUPERSEDES: 04/23/86**

ZEP TKO

PRODUCT NO.: 0960

Abrasive Hand Cleaner

SECTION I - EMERGENCY CONTACTS

TELEPHONE:

(404) 352-1680

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

MEDICAL EMERGENCY:

(404) 435-2973 (404) 351-2952 (404) 432-2873 NON-OFFICE HOURS, WEEKENDS AND HOLIDAYS, PLEASE CALL YOUR

LOCAL POISON CONTROL

TRANSPORTATION EMERGENCY:

(404) 922-0923

CHEMTREC:

1-800-424-9300

TOLL-FREE - ALL CALLS RECORDED

DISTRICT OF COLUMBIA:

(202) 483-7616

ALL CALLS RECORDED

N/D

SECTION II - HAZARDOUS INGREDIENTS

TIV **EFFECTS** DESIGNATIONS (PPM) (SEE PEVERSE PROD ** ALPHA OLEFIN SULFONATE, SODIUM SALT ** sulfonic acids, c14-18 alka c12-20-alkenehydroxy, sodium salts; CAS # 68439-57-6; RTECS # NONE; OSHA PEL N/O ** NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ** poly(oxy-1,2-ethanediyl), alph sulfonic acids, c14-18 alkane and c12-20 alkene and N/D EIR 5-10

poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy;

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:

This product can be an eye irritant. Inflammation of eye tissue is characterized by redness, watering, and/or itching.

Chronic Effects of Overexposure:

Prolonged skin contact (4-8 hrs.), Without rinsing, may result in irritation characterized by itching or reddening of the skin. None of the hazardous ingredients are listed as carcinogens by IARC, NTP, & OSHA

Est'd PEL/TLV: Not established

Primary Routes of Entry: N/A

HMIS Codes: HEALTH 1;FLAM. 0;REACT. 0;PERS. PROTECT. - ;CHRONIC HAZ. NO

FIRST AID PROCEDURES:

Skin: This product is formulated for use on the skin, but it should be rinsed off with water. Eves:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once Inhale:

This route of exposure is not likely due to product nature.

CAS# 9016-45-9; RTECS# MD905000; OSHA PEL-N/D

Ingest: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

SECTION IV - SPECIAL PROTECTION INFORMATION

Protective Clothing:

Eye Protection: Respiratory Protection:

No special measures are required. No special measures are required. No special measures are required. No special measures are required

SECTION V - PHYSICAL DATA

Ventilation

Boiling Point (°F): 212 Percent Volatile by Volume (%): 70

Specific Gravity: Vapor Density (air = 1): N/A

Vapor Pressure (mmHg): Evaporation Rate (WATER = 1): N/A

EIR

< 5

Solubility in Water: 85% pH (concentrate): 5.5-6.5 Appearance and Odor: VISCOUS, GREEN ABRASIVE LIQUID/LEMON-LIME FRAGRANCE

pH (use dilution of):

N/A

SECTION VI - FIRE AND EXPLOSION DATA

.96

Flash Point (°F) (method used): N/A ()

Flammable Limits:

LEL NA UEL NA NOT COMBUSTIBLE

Extinguishing Media: Special Fire Fighting: Unusual Fire Hazards:

NONE

RECEIVED

MAY 2 3 1995

TRANSPORTATION

ZEP MANUFACTURING COMPANY

MATERIAL SAFETY DATA SHEET

SECTION VII - REACTIVITY DATA

Stability:

Incompatibility (avoid):

Strong acids and oxidizing agents.

Polymerization: Will not occur. Hazardous Decomposition:

Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

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 inext absorbent material (eg Zep-O-Zorb). Pick up and place residue in a suitable waste container or, if permitted, flush to sewer. Thoroughly rinse spill area with water

Waste Disposal Method:

Liquid wastes are not permitted in landfills. This 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. In some areas disposal by flushing into a sanitary sewer with plenty of water may be permissible. Consult local, state, and federal agencies for proper disposal method 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 out of eyes. Keep out of the reach of children.

SECTION X - TRANSPORTATION DATA

DOT Label/Placard: NONE

DOT Proper Shipping Name: 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): N/A

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 Safety 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 must be sent to a drum reconditioner before reuse.

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

SECTION II: HAZARDOUS INGREDIENTS

CAR: Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.
CAS #: Chemical Abstract Services Registry Number -

universally accepted numbering system for chemical substances.

CBL 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 ingredients.

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

inflammation of eye tissues.

EXPOSURE LIMITS: The time weighted average (TWA) air-

borne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLV's, and OSHA PEL's (TWA, STEL and ceiling timitel

ACGIH: American Conference of Governmental Industrial

Hygienists.

CEILING: The concentration that should not be exceeded in the workplace during any part of the working exposure.

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

(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. 7LV: Threshold Limit Value - A set of time weighted average 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

(b.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

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

inflammation) - orimarily skin and eyes.

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

product.
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.

Toxic . The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 lablespoons) or more.

SECTION III: HEALTH HAZARD DATA

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ACUTE EFFECT: An adverse effect on the human body from
a single exposure with symptoms developing atmost immediately after 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 PEUTLV: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the
ACGIH postains to airborne consentrations from the prod-

ACGIH, pertains to airborne concentrations from the product 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 indicted with a yes. Consult HMIS training guides for Personal Pro-tection letter codes which indicate necessary protective equipment.

ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized-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.

Health.

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

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 pressure 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 pH = 14)
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 expected 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 original 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 reguir 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)