



CLEAN ACROSS AMERICA AND
THROUGHOUT THE WORLD™

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

FROST BENCO ELECTRIC
HWY 169 SOUTH
MANKATO, MN 56001

MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

4095

11/30/94

ISSUE DATE: 08/24/93

SUPERSEDES: 09/12/90

ZEP BRAKE PARTS CLEANER

PRODUCT NO.: 0290

Aerosol Brake Parts Cleaner

SECTION I - EMERGENCY CONTACTS

TELEPHONE:

(404) 352-1680

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

MEDICAL EMERGENCY:

(404) 435-2973

NON-OFFICE HOURS, WEEKENDS

(404) 432-2873

AND HOLIDAYS, PLEASE CALL YOUR

(404) 424-4789

LOCAL POISON CONTROL

(404) 319-6151

(404) 242-3561

TRANSPORTATION EMERGENCY:

(404) 922-0923

CHEMTREC:

1-800-424-9300

TOLL-FREE - ALL CALLS RECORDED

DISTRICT OF COLUMBIA:

(202) 483-7616

ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS

@ ** 1,1,1-TRICHLOROETHANE ** methyl chloroform chlorothene; CAS# 71-55-6; RTECS# KJ2975000; OSHA PEL-350 PPM; ACGIH/OSHA STEL-450 PPM

TLV
(PPM)

EFFECTS
(SEE REVERSE)

% IN
PROD.

@ ** TETRACHLOROETHYLENE ** perchloroethylene; perc; carbon bichloride; CAS# 127-18-4; RTECS# KX3850000 OSHA PEL-25 PPM; ACGIH STEL-200 PPM

350

IRR CNS

60-70

50

CNS IRR CAR

15-25

@ Identifies chemicals listed under SARA-Section 313 for release reporting

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:

Inhalation of vapor can produce central nervous system depression, characterized by dizziness, headache, nausea, cardiac and/or respiratory depression, stupor, unconsciousness and death, in extreme cases. Exposure to high concentrations of vapor by direct contact or inhalation can be irritating to mucous membranes, such as eyes and upper respiratory tract. Severe eye exposure to liquid can cause reversible eye damage. Skin contact may cause a burning sensation and reddening of the skin. Introduction of solvent to the lungs, as in aspiration of vomitus fluids, may cause chemical pneumonia. Exposure to this product may aggravate existing respiratory and cardiac conditions. Inhalation of aerosol mist may produce chemical pneumonia.

Chronic Effects of Overexposure:

Repeated or prolonged contact by inhalation or skin absorption may produce liver or kidney damage or damage to the central nervous system, characterized by tingling or numbness in the extremities, blurred vision or confusion. Skin, which is defatted by repeated exposure to solvents, is more susceptible to irritation, infection, and dermatitis. Exposure to some ingredients in this product can aggravate existing liver disease or heart rhythm disorders. One of the ingredients in this product has been shown to cause tumors in laboratory test animals. The relevance of these studies for humans has not been established.

Est'd PEL/TLV: 201 PPM

Primary Routes of Entry: Inh, Skin.

HMIS Codes: HEALTH 1;FLAM. 1;REACT. 1;PERS. PROTECT. B ;CHRONIC HAZ. YES

FIRST AID PROCEDURES:

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

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

Inhale: Move exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Get medical attention immediately.

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:

Wear viton gloves or use gloves with demonstrated resistance to the ingredients in this product.

Eye Protection:

Use tight-fitting safety glasses. Contact lenses should not be worn when working with this material.

Respiratory Protection:

If ventilation is inadequate, wear a properly fitting MSHA or OSHA-approved respirator.

Ventilation:

Ventilation should be equivalent to outdoors. Use exhaust fans and open windows in enclosed spaces.

SECTION V - PHYSICAL DATA

Boiling Point (°F): 165-250

Specific Gravity: 1.42

Vapor Pressure (mmHg):

APPROX. 100

Percent Volatile by Volume (%): 100

Vapor Density (air = 1): 4.95

Evaporation Rate (CCL4 = 1):

.34

Solubility in Water: NEGLIGIBLE

pH (concentrate): N/A

pH (use dilution of):

N/A

Appearance and Odor: A THIN, COLORLESS LIQUID WITH A CHLORINATED HYDROCARBON ODOR

SECTION VI - FIRE AND EXPLOSION DATA

Flash Point (°F) (method used): NOT FLAMMABLE (CSMA)

Flammable Limits: LEL 7.0 UEL 15.0

Extinguishing Media: N/A

Special Fire Fighting: Wear self-contained positive pres. breathing apparatus.

Unusual Fire Hazards: Direct water onto intact containers to prevent bursting.