



ZEP Manufacturing Company of Canada
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Material Safety Data Sheet

and Safe Handling and Disposal Information

SECTION I - PRODUCT INFORMATION

Issue Date 25/04/03
Supersedes 28/11/00
Product Name **ZEP 45 - NO 1,1,1**
Product No. **0149**
 Lubricant Penetrant Spray

For MSDS Information:
 Zep Manufacturing Company of Canada
Technical Services: (780) 453-8100

For Medical Emergency (24 Hour Service):
 CANUTEC: (613) 996-6666 Call Collect

For a Transportation Emergency (24 Hour Service):
 CANUTEC: (613) 996-6666 Call Collect

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SECTION II - HAZARDOUS INGREDIENTS

- ** LIGHT AROMATIC NAPHTHA **** aromatic hydrocarbon solvent; solvent naphtha(petroleum); CAS# 64742-95-6; RTECS# NONE; OSHA PEL-N/D
 TLV: Not Available; % IN PROD: 10-30
 LD50: Not Available SPECIES: Not Available ROUTE: Not Available
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available
- ** LIGHT ALIPHATIC NAPHTHA **** solvent naphtha (petroleum), medium aliphatics; formerly: light aromatic naphtha; CAS#64742-88-7; RTECS# NONE; OSHA PEL 500ppm TLV: 100; % IN PROD: 10-30
 LD50: Not Available SPECIES: Not Available ROUTE: Not Available
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available
- ** ETHANOL **** ethyl alcohol; grain alcohol; CAS# 64-17-5; RTECS# KQ6300000; OSHA PEL-1000 ppm TLV: 1000; % IN PROD: 7-13
 LD50: 7060 mg/kg SPECIES: RAT ROUTE: ORL
 LC50: 20000 mg/m3 SPECIES: RAT ROUTE: IHL
- ** BLEND OF [AMYL ACETATE; CAS# 628-63-7; RTECS# AJ1925000], [3-METHYL BUTYL ACETATE; CAS# 123-92-2; RTECS# NS9800000] & [2-METHYL BUTYL ACETATE; CAS# 624 -41-9; RTECS# NONE] **** OSHA PEL-100 ppm for 628-63-7 TLV: 100; % IN PROD: 3-7
 LD50: Not Available SPECIES: Not Available ROUTE: Not Available
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available
- ** 2-ETHYL HEXYL ALCOHOL **** 2-ethyl-1-hexanol; ethyl_ hexanol; CAS# 104-76-7; RTECS# MP0350000; OSHA PEL N/D TLV: Not Available; % IN PROD: 3-7
 LD50: 2049 mg/kg SPECIES: RAT ROUTE: ORL
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available
- ** PARAFFIN OIL **** blend of heavy and light naph_ thenic petroleum distillate; CAS# 64742-52-5; RTECS# NONE; OSHA PEL - N/D; ACGIH OIL MIST LIMIT= 5mg/m3 TLV: Not Available; % IN PROD: 10-30
 LD50: Not Available SPECIES: Not Available ROUTE: Not Available
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available
- ** MINERAL SEAL OIL **** (mineral oil); petrolatum; CAS# 64742-30-9; RTECS# - NONE; ACGIH/OSHA OIL MIST LIMIT = 5 mg/m3 TLV: Not Available; % IN PROD: 5-10
 LD50: Not Available SPECIES: Not Available ROUTE: Not Available
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available
- ** CARBON DIOXIDE **** CAS# 124-38-9 TLV: ; % IN PROD: 1-5
 LD50: Not Available SPECIES: Not Available ROUTE: Not Available
 LC50: Not Available SPECIES: Not Available ROUTE: Not Available

THE WHMIS CLASSIFICATION FOR THIS PRODUCT IS: A B5 D2A

SECTION III - TOXICOLOGICAL PROPERTIES

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 so long as prescribed safety precautions are practiced.

EFFECTS OF ACUTE EXPOSURE:

Exposure by inhalation may produce eye,nose and throat irritation. Inhalation of harmful amounts of vapor may produce mild central nervous system depression characterized by headache, nausea, vertigo, and stupor.Introduction of hydrocarbon into the lungs, as in aspiration of vomitus fluids, may prduce chemical pneumonia.Existing respiratory disorders or skin diseases may be aggravated by exposure.

EFFECTS OF CHRONIC EXPOSURE:

Repeated or prolonged skin contact may produce mild central nervous system de- pression, characterized by headache, nausea, stupor, and coma. Skin which is defatted by repeated exposure to hydrocarbon solvents is more susceptible to irritation, infection, and dermatitis. Animal studies of the effects of

prolonged inhalation indicated a potential for lung damage and blood production abnormalities, some of which were fatal. Relevance of these studies to human health and the levels of exposure which might produce these results, has not been established. None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

PRIMARY ROUTES OF ENTRY: Inh, skin

SECTION IV - FIRST AID MEASURES

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: If symptoms occur, move affected person to fresh air. If symptoms persist, get medical attention promptly.

INGEST: Aspiration hazard - do not induce vomiting. If vomiting occurs, keep head below hip level. Get emergency medical attention immediately.

SECTION V - PHYSICAL DATA

BOILING POINT (C) : Not Available
FREEZING POINT (C) : Not Available
VAPOR PRESSURE(mmHg) : Not Available
VAPOR DENSITY(AIR-1) : Not Available
SOLUBILITY IN WATER : Not Available
APPEARANCE AND ODOR : A CLEAR, BROWN OILY LIQUID WITH A SWEET ODOR.

SPECIFIC GRAVITY : 0.860
VOC CONTENT (CONCENTRATE) : 73.0%
EVAPORATION RATE (Not Available = 1) : Not Available
pH(CONCENTRATE) : Not Available
pH(USE DILUTION OF Not Available) : Not Available

SECTION VI - PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION:

PROTECTIVE CLOTHING: Wear neoprene, nitrile, or natural rubber gloves or gloves with proven resistance to the ingredients listed.

EYE PROTECTION: Use of tight-fitting safety glasses or goggles is strongly recommended, especially when wearing contact lenses.

RESPIRATORY PROTECTION: When exposure levels exceed PEL/TLV (likely in confined areas) use an organic vapor respirator.

VENTILATION: Provide local exhaust/ventilation as needed to keep concentration of vapors below exposure limits (PEL/TLV).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Observe safety precautions in Section 6 during clean-up. Large spills are unlikely due to packaging. Spill may be absorbed on an inert absorbent material (e.g. Zep-O-Zorb), and placed in a suitable container for disposal. Wash area thoroughly with a detergent solution.

WASTE DISPOSAL METHOD:

Product is consumed in use. Do not crush, puncture, or incinerate spent containers. Large numbers of aerosol containers may require handling as a hazardous waste. Check local, provincial, and federal regulations for proper disposal methods in your area.

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

Flammable! Store and use away from heat, sparks, open flame, and any source of ignition. 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. Vapors are heavier than air and will accumulate at low points. Ventilation should include floor level exhausting. Do not store at temperatures above 120F (39C) or in direct sunlight. Do not puncture or incinerate container.

TRANSPORTATION DATA

TDG I.D. NUMBER: Not Available
TDG PROPER SHIPPING NAME: CONSUMER COMMODITY,
TDG HAZARD CLASS: ORM-D
TDG PACKAGING GROUP: Not Available
TDG LABEL/PLACARD:ORM-D

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT(C) (METHOD USED): Not Available Not Available
FLAMMABLE LIMITS : LOWER: Not Available UPPER: Not Available
CONDITIONS OF FLAMMABILITY: Heat, flame, spark, strong acids and/or oxidizers.
AUTOIGNITION TEMPERATURE (C) : Not Available
MEANS OF EXTINCTION: Carbon dioxide, dry chemical and foam.
FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.
FIRE HAZARD: Direct water onto intact containers to prevent bursting.
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, and other unidentified organic compounds.
EXPLOSION DATA: Not Available

SECTION VIII - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY(AVOID): Heat, open flame, spark, and oxidizing agents.
REACTIVITY: Will not occur.
HAZARDOUS DECOMPOSITION: Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

SECTION IX - PREPARATION INFORMATION

Prepared By: Zep Technical Services, Zep Manufacturing Company of Canada, Edmonton, Alberta
For MSDS Information, telephone: (780) 453-8100

Date of Preparation : 25/04/03