



CLEAN ACROSS AMERICA AND
THROUGHOUT THE WORLD™

MATERIAL SAFETY DATA SHEET AND SAFE HANDLING AND DISPOSAL INFORMATION

1-877-I-BUY-ZEP (1-877-428-9937)

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

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ZEP 50

Prod No: 0150 Aerosol Engine Degreaser

SOLD TO:

00143

(363)
TACOMA PORT OF
802 PORT CENTER RD
TACOMA WA 98421-3800

SECTION I - EMERGENCY CONTACTS

TELEPHONE: (404) 352-1680 BETWEEN 8:00 AM - 5:00 PM (EST)
MEDICAL EMERGENCY: (770) 439-4200 NON OFFICE HOURS, WEEKENDS
(770) 432-2873 AND HOLIDAYS, PLEASE CALL
(770) 424-4789 LOCAL POISON CONTROL
(770) 424-2048
(770) 455-8160
(770) 552-8836
TRANSPORTATION EMERGENCY: (770) 922-0923
CHEMTREC: (800) 424-9300 TOLL FREE-CALLS RECORDED
DISTRICT OF COLUMBIA: (202) 483-7616 ALL CALLS RECORDED

A13293

DESIGNATIONS

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	(PPM)	EFFECTS (SEE NOTICE)	% IN PROD.
** MONOETHANOLAMINE ** 2-aminoethanol; MEA; CAS# 141-43-5; RTECS# KJ5775000; OSHA PEL-3 PPM; OSHA/ACGIH STEL-6 PPM	3	COR CNS CBL	< 5
** D-LIMONENE ** orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-; CAS# 5989-27-5; RTECS# GW6360000; OSHA PEL N/D	N/D	CBL SEN	5-15
** HEAVY AROMATIC NAPHTHA ** solvent naphtha (petroleum), heavy aromatics; CAS# 64742-94-5; RTECS# NONE; Supplier TW/A- 100 ppm; OSHA PEL-N/D	N/D	CNS CBL	5-15
** BLEND OF [ISOBUTANE; CAS# 75-28-5; RTECS# TZ4300000] & [PROPANE; CAS# 74-98-6; RTECS# TX2775000] & [n-BUTANE; CAS# 106-97-8; RTECS# EJ4200000] OSHA PEL-1000 ppm **	800	FBL	< 10

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:

Contact with this product may irritate eyes and skin. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

One of the ingredients in this product has caused sensitization reactions in a small percentage of the general population.

CHRONIC EFFECTS OF OVEREXPOSURE:

Repeated or prolonged exposure by inhalation or skin absorption may produce liver or kidney damage, or damage to the central nervous system.

Skin which is repeatedly defatted by contact with this product may be more susceptible to irritation, infection, or dermatitis.

EST'D PEL/TLV: Not established PRIMARY ROUTES OF ENTRY: Inh, Skin.

HMS CODES: HEALTH 1; FLAM. 2; REACT. 0; PERS. PROTECT. B; CHRONIC HAZ. NO

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

EYE PROTECTION: Wear tight-fitting safety glasses when using or handling this product.

RESPIRATORY PROTECTION: Avoid inhalation of spray mists, and do not direct spray toward people.

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

SECTION V - PHYSICAL DATA

BOILING POINT (F):	212	SPECIFIC GRAVITY:	0.996
VAPOR PRESSURE(mmHg):	N/D	EVAPORATION RATE (N/D=1):	N/D
VAPOR DENSITY(AIR=1):	N/D	pH(CONCENTRATE):	N/A
SOLUBILITY IN WATER:	N/D	pH(USE DILUTION OF):	N/A
VOC CONTENT (CONCENTRATE):	27.4%		
APPEARANCE AND ODOR: A THIN, MILKY LIQUID WITH A ORANGE/CITRUS ODOR.			

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(F) (METHOD USED): Nonflammable (CSMA)

FLAMMABLE LIMITS: LEL: N/D UEL: N/D

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water fog, foam.

SPECIAL FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.

UNUSUAL FIRE HAZARDS: Direct water onto intact containers to prevent bursting.

SECTION VII - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY(AVOID): Heat, open flame, spark, 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 precautions in sections 4 & 9 during spill clean-up. Large spills are unlikely due to packaging. Spill may be absorbed on an inert absorbent material (eg Zep-O-Zorb), and placed in a suitable container for disposal. Wash area thoroughly with a detergent solution and rinse well with water.

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, but in most states total hazardous waste quantities less than 220 lbs per month may allow disposal in a chemical or industrial waste landfill. Consult local, state and federal agencies for the proper disposal method in your area.

RCRA HAZ. WASTE NOS.: N/A

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

Do not store at temperatures above 120F (39C) or in direct sunlight. Do not puncture or incinerate container. Keep product away from skin and eyes.

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DISPATCH