



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

05/12/94
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ZEP MANUFACTURING COMPANY
FIRST IN MAINTENANCE PRODUCTS

ISSUE DATE: 08/24/93 ZEP BIG ORANGE AEROSOL
SUPERSEDES: 10/30/89 PRODUCT NUMBER: 0114

Aerosol Solvent Degreaser

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY TELEPHONE: (404)352-1680 BETWEEN 8:00 AM-5:00 PM (EST)
P.O. BOX 2015 NON-OFFICE HOURS, WEEKENDS, AND HOLIDAYS: AREA CODE 404
ATLANTA, GEORGIA 30301 435-2973, 351-2952, 432-2873
LOCAL POISON CONTROL CENTER
TRANSPORTATION EMERGENCY: CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
(404)922-0923 or DISTRICT OF COLUMBIA (202)483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS

** D-LIMONENE ** orange distillate; citrus terpene;
cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-
CAS# 5989-27-5; RTECS# GW6360000; OSHA PEL N/D
** NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL **
poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-
hydroxy; CAS# 9016-45-9; RTECS# MD905000; OSHA PEL-
N/D

TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
N/D	CBL SEN	70-80
N/D	EIR	< 5

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.

ONE OF THE INGREDIENTS IN THIS PRODUCT HAS CAUSED SENSITIZATION REACTIONS IN A
SMALL PERCENTAGE OF THE GENERAL POPULATION.



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SECTION III - HEALTH HAZARD DATA (CONTINUED)

CHRONIC EFFECTS OF OVEREXPOSURE:

CONTACT, ESPECIALLY IF PROLONGED OR REPEATED, MAY CAUSE REDNESS, ITCHING, OR
BLISTERING OF THE SKIN.

NONE OF THE INGREDIENTS ARE LISTED AS CARCINOGENS BY IARC, NTP, OR OSHA.

EST'D PEL/TLV: NOT ESTABLISHED PRIMARY ROUTES OF ENTRY: N/A

HMIS CODES: HEALTH 1; FLAM. 2; REACT. 0; PERS. PROTECT. A ; 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, OC-
CASIONALLY 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 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 : 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: KEEP FACE AWAY FROM SPRAY MIST AND DO NOT BREATHE
VAPORS.

VENTILATION : VENTILATION SHOULD BE EQUAL TO OUTDOORS. USE EXHAUST
FANS AND/OR EXHAUST HOOD IN ENCLOSED SPACES.

SECTION V - PHYSICAL DATA (FOR FILL MATERIAL ONLY)

BOILING POINT (F) : N/A **SPECIFIC GRAVITY** : 0.859

VAPOR PRESSURE (MMHG): 40 P. S. I. **PERCENT VOLATILE BY VOLUME (%)** : ~90

VAPOR DENSITY (AIR=1): N/A **EVAPORATION RATE (N/A =1)**: N/A

SOLUBILITY IN WATER : COMPLETE **PH (CONCENTRATE)** : N/A

PH (USE DILUTION OF N/A) : N/A

APPEARANCE AND ODOR : CLEAR LIQUID WITH ORANGE FRAGRANCE

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT (F) (METHOD USED): EXTREMELY FLAMMABLE (CSMA)

FLAMMABLE LIMITS LEL N/A UEL N/A

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.



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SECTION VII - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY(AVOID) : HEAT, FLAME, SPARK, STRONG ACIDS AND/OR OXIDIZERS
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.

HAZARDOUS 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.

CRA HAZ. WASTE NOS.: D001

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
FLAMMABLE! STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, AND ANY SOURCE OF IGNITION.
Do not store at temperatures above 120°F. or in direct sunlight. Do not puncture or incinerate container.
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 PROPER SHIPPING NAME
CONSUMER COMMODITY,
DOT HAZARD CLASS: ORM-D
DOT I.D. NUMBER : N/A DOT LABEL/PLACARD: ORM-D
PA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED
PA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER):

Not showing behind 2