

MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

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ZEP MANUFACTURING COMPANY FIRST IN MAINTENANCE PRODUCTS ISSUE DATE: 07/12/89 ZEP BIG DRANGE

SUPERSEDES: 06/15/88 PRODUCT NUMBER: 0415

SECTION I - E M E R Q E N G Y C O N T A C T S

ATLANTA, GEORGIA 30301

P.O. BOX 2015

ZEP MANUFACTURING COMPANY TELEPHONE: (404)352-1680 BETWEEN 8:00 AM-5:00 PM (EST) NON-OFFICE HOURS, WEEKENDS, AND HOLIDAYS: AREA CODE 404

435-2973, 996-0899, 351-2952, 971-3367, 432-2873

LOCAL POISON CONTROL CENTER

TRANSPORTATION EMERGENCY: CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED

DISTRICT OF COLUMBIA (202)483-7616 ALL CALLS RECORDED

INGREDIENTS SECTION II - HAZARDOUS

	ILV	EFFECIS	Z IN	
DEBIGNATIONS	(PPM)	(SEE REVERSE)	PROD.	
<pre>** D-LIMONENE ** orange distillate; citrus terpene;</pre>	NZD	CBL SEN	> 90	
cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-				
CAS# 5989-27-5; RTECS# GW6360000; OSHA PEL N/D				
** ALCOHOLS, C11-C15-SECONDARY, ETHOXYLATED ** CAS#	NZD	EIR	< 5	
68131-40-8; RTECS# WZ5200000; DSHA PEL N/D				
** NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL **	N/D	EIR	< 5	
poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-				
hydroxy; CAS# 9016-45-9; RTECS# MD905000; OSHA PEL-				
N/D				

SPECIAL NOTE: ADVERSE HEALTH EFFECTS WOULD NOT BE EXPECTED UNDER RECOMMENDED CONDITIONS OF USE SO LONG AS PRESCRIBED SAFETY PRECAUTIONS ARE PRACTICED.

SECTION III - HEALTH HAZARD DATA

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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RECTION III - H \in A \cup T H \cup H A \cup A R D \cup D A T A (CONTINUED).

CHRONIC EFFECTS OF OVEREXPOSURE:

CONTACT, ESPECIALLY IF PROLONGED OF REPEATED, MAY CAUSE REDDNESS, ITCHING, OR

BLISTERING 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. 2; REACT. 0; PERS. PROTECT. A ; CHRONIC HAZ. NO

FIRST AID PROCEDURES:

SKIN : WASH CONTAMINATED SKIN THROUGHLY 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.

INCEST: 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 - S P E C I A L P R O T E C T I O N I N F O R M A T I O N

PROTECTIVE CLOTHING : THE USE OF NEOPRENE, NITRILE OR NATURAL RUBBER GLOVES IS

STRONGLY RECOMMENDED, ESPECIALLY FOR PROLONGED CONTACT.

: WEAR TIGHT-FITTING SPLASH-PROOF SAFETY GLASSES EYE PROTECTION

ESPECIALLY IF CONTACT LENSES ARE WORN.

RESPIRATORY PROTECTION: NO SPECIAL MEASURES ARE REQUIRED.

VENTILATION : NO SPECIAL MEASURES ARE REQUIRED.

SECTION V - P H Y S I C A L DATA

BOILING POINT (F) : 338-375 est. SPECIFIC GRAVITY : 0.844

PERCENT VOLATILE BY VOLUME (%) : 93.8 VAPOR PRESSURE(MMHG): N/A
VAPOR DENSITY(AIR=1): N/A EVAPORATION RATE(CCL4 =1): ~33

SOLUBILITY IN WATER : EMULSIFIES : N/A PH(CONCENTRATE)

PH(USE DILUTION OF 1:20): 7.6

APPEARANCE AND ODOR : ORANGE LIQUID WITH A CITRUS ODOR

SECTION VI - FIRE AND EXPLOSION DATA

(TCC) FLASH POINT(F) (METHOD USED): 121F

FLAMMABLE LIMITS LEL N/A VEL N/A

EXTINGUISHING MEDIA : FOAM, DRY CHEMICAL, CO2

SPECIAL FIRE FIGHTING: FIRE EXPOSED DRUMS SHOULD BE COOLED WITH STREAM OF WATER.

UNUSUAL FIRE HAZARDS : NONE



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SECTION VILLER E A C T I V I T Y D A T A

: STABLE

INCOMPATIBILITY/AVOID) : HEAT, FLAME, SPARK, STRONG ACIDS AND/OR OXIDIZERS

FOLYMERIZATION : 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:

IMMEDIATELY ELIMINATE ALL FLAME, IGNITION AND HIGH-HEAT SOURCES. ABSORB SPILL ON INERT ABSORBENT MATERIAL (eg ZEP-O-ZORB). PICK UP AND PLACE RESIDUE IN A CLEAN, D.O.T. SPECIFICATION CONTAINER FOR DISPOSAL. WASH AREA THOROUGHLY WITH A DETERGENT SOLUTION AND RINSE WELL WITH WATER.

WASTE DISPOSAL METHOD:

LIQUIDS CANNOT BE SENT TO LANDFILLS UNLESS SOLIDIFIED. UNUSABLE PRODUCT AND COLLECTED, SPENT MATERIAL MAY REQUIRE DISPOSAL AS A HAZARDOUS WASTE AT A PERMIT-TED TREATMENT/STORAGE/DISPOSAL FACILITY. SOLVENT WASTES MAY REQUIRE TREATMENT TO MEET THE APPROPRIATE STANDARDS BEFORE DISPOSAL IN A CHEMICAL OR INDUSTRIAL WASTE LANDFILL. CONSULT LOCAL, STATE, AND FEDERAL AGENCIES FOR PROPER DISPOSAL METHOD IN YOUR AREA.

RORA HAZ. WASTE NOS.: DOO1

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

COMBUSTIBLE! STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, OR ANY SOURCE OF IGNITION.

POST "NO SMOKING" SIGNS ACCORDING TO LOCAL REGULATIONS FOR COMBUSTIBLE LIQUIDS. KEEP PRODUCT AWAY FROM SKIN AND EYES.

STORE TIGHTLY CLOSED CONTAINER IN A DRY AREA AT TEMPS. BETWEEN 40-120 DEGREES F. KEEP OUT OF THE REACH OF CHILDREN.

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME

NONE

DOT HAZARD CLASS: N/A

DOT I.D. NUMBER: N/A DOT LABEL/PLACARD: NONE

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): N/A