



# MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

04/10/91  
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ZEP MANUFACTURING COMPANY  
FIRST IN MAINTENANCE PRODUCTS

ISSUE DATE: 09/13/90 ZEP STICK  
SUPERSEDES: 04/21/90 PRODUCT NUMBER: 0153

## 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, 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

## SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
@** 1,1,1-TRICHLOROETHANE ** methyl chloroform chloroethene; CAS# 71-55-6; RTECS# KJ2975000; OSHA PEL-350 PPM; ACGIH/OSHA STEL-450 PPM	350	IRR CNS	20-30
@** ACETONE ** 2-propanone; dimethyl ketone; CAS# 67-64-1; RTECS# AL3150000; OSHA PEL-750 PPM; OSHA/ACGIH STEL-1000 PPM	750	FBL IRR	< 5
@** TOLUENE ** phenyl methane; methyl benzene; toluol; CAS# 108-88-3; RTECS# XS5250000; OSHA PEL-100 PPM; OSHA/ACGIH STEL-150 PPM	100	FBL CNS IRR	< 5

@ IDENTIFIES CHEMICALS LISTED UNDER SARA-SECTION 313 FOR RELEASE REPORTING.

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:  
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.



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## SECTION III - HEALTH HAZARD DATA (CONTINUED)

### 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 SUSEPTIBLE TO IRRITATION, INFECTION, AND DERMATITIS.

INGREDIENTS IN THIS PRODUCT MAY AGGRAVATE EXISTING SKIN, EYE, OR RESPIRATORY DISORDERS.

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

EST'D PEL/TLV: NOT ESTABLISHED PRIMARY ROUTES OF ENTRY: INH, SKIN.

HMS CODES: HEALTH 2; FLAM. 4; REACT. 0; 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 : WEAR TIGHT-FITTING SPLASH-PROOF SAFETY GLASSES ESPECIALLY IF CONTACT LENSES ARE WORN.
- RESPIRATORY PROTECTION: IF VENTILATION IS INADEQUATE, WEAR A PROPERLY FITTING MSHA OR OSHA-APPROVED RESPIRATOR.
- 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) : 152F APPROX. SPECIFIC GRAVITY : 0.75
- VAPOR PRESSURE(MMHG): 137 PERCENT VOLATILE BY VOLUME (%) : 63
- VAPOR DENSITY(AIR=1): N/D EVAPORATION RATE(TOLUENE =1): 2.6
- SOLUBILITY IN WATER : NEGLIGIBLE PH(CONCENTRATE) : N/A
- PH(USE DILUTION OF N/A) : N/A
- APPEARANCE AND ODOR : AEROSOL-THIN, OPAQUE, CREAMY SYRUP-"SOLVENT" ODOR.

## SECTION VI - FIRE AND EXPLOSION DATA

- FLASH POINT(F) (METHOD USED): FLAMMABLE (CSMA)
- FLAMMABLE LIMITS LEL 1.0% UEL 12.0%
- EXTINGUISHING MEDIA : CARBON DIOXIDE, DRY CHEMICAL, WATER FOG, AND ALCOHOL FOAM
- SPECIAL FIRE FIGHTING: WEAR SELF-CONTAINED POSITIVE PRES. BREATHING APPARATUS.
- UNUSUAL FIRE HAZARDS : CONCENTRATED VAPOR MAY IGNITE IF EXPOSED TO SPARK.



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## SECTION VII - R E A C T I V I T Y   D A T A

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 - S P I L L   A N D   D I S P O S A L   P R O C E D U R E S

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 (eg ZEP-O-ZORB), 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. : D001, F002

## SECTION IX - S P E C I A L   P R E C A U T I O N S

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 120F. OR IN DIRECT SUNLIGHT. DO NOT PUNCTURE OR INCINERATE CONTAINER.  
KEEP PRODUCT AWAY FROM SKIN AND EYES.  
DO NOT BREATHE SPRAY MISTS OR VAPORS.  
VAPORS ARE HEAVIER THAN AIR AND WILL ACCUMULATE AT LOW POINTS. VENTILATION SHOULD INCLUDE FLOOR LEVEL EXHAUSTING.  
CLOTHING OR SHOES WHICH BECOME CONTAMINATED WITH SUBSTANCE SHOULD BE REMOVED PROMPTLY AND NOT REWORN UNTIL THOROUGHLY CLEANED.

## SECTION X - T R A N S P O R T A T I O N   D A T A

DOT PROPER SHIPPING NAME  
CONSUMER COMMODITY  
DOT HAZARD CLASS: N/A  
DOT I. D. NUMBER : N/A      DOT LABEL/PLACARD: ORM-D  
EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED  
EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): NONE