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Product ID:TOLUENE MSDS Date:06/10/1994 FSC:6810 NIIN:00-281-2002 MSDS Number: BTKQL === Responsible Party === **Company Name: FEDERAL SPECIFICATIONS** Address: PROMULGATED BY GENERAL SERVICES ADMIN **City:WASHINGTON** State:DC Country:US Info Phone Num:804-279-4371 DSN-695-4371(DLA-HMIS) Emergency Phone Num:800-851-80 61 (DOD-TRANSPORT ONLY) Preparer's Name: HMIS STAFF CAGE:81348 === Contractor Identification === Company Name: FEDERAL SPECIFICATIONS, PROMULGATED BY GSA Box:City:WASHINGTON State:DC Country:US CAGE:81348

Ingred Name:TOLUENE (SARA III) CAS:108-88-3 RTECS #:XS5250000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:200 PPM; Z-2 ACGIH TLV:S, 50 PPM; 9394 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 5000 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: ACUTE: MAY BE HARMFUL BY INHALATION, INGESTION OR SKIN ABSORPTION. VAPOR OR MIST IS IRRITATING TO EYES, MUCOUS MEMBRANES, UPPER RESPIRATORY TRACT. CAUSES SKIN IRRITATION. EXPOSURE CAN CAUSE GI TRACT DI STURBANCES. CHRONIC: PROLONGED OR REPEA TED EXPOSURE MAY CAUSE DAMAGE TO LIVER & KIDNEY, BLOOD EFFECTS, AND CNS EFFECTS. Explanation of Carcinogenicity: TOLUENE IS NOT LISTED BY NTP, IARC NOR REGULATED BY OSHA AS A CARCINOGEN. Effects of Overexposure: INHALED/ABSORBED BY SKIN/INGESTED (CNS EFFECTS): DIZZINESS, NAUSEA, HEADACHE, VOMITING. INHALED: SHORTNESS OF BREATH. EYES: PAIN, BURNING SENSATION, TEARING. SKIN CONTACT: REDNESS, SWELLING, DISCOMFOR T. Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF AILM ENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE LIVER OR KIDNEY MAY BE AT INCREASED RISK FROM EXPOSURE. First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOV E CONTAMINATED CLOTHING, WASH WITH SOAPAND WATER, IF

IRRITATION PERSISTS, GET MEDICAL AD VICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

Flash Point Method:CC Flash Point:=4.4C, 40.F Lower Limits:1.2% Upper Limits:7.1% Extinguishing Media:DRY CHEMICAL, FOAM, OR CARBON DOXIDE. WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT. Fire Fighting Procedures:APPROACH FIRE FROM UPWIND TO AVOID HAZARDOUS VAPORS OR TOXIC DECOM

TECHNICAL SUPPORT; UNABLE TO DETERMINE MANUFACTURER/VENDOR FOR CONTRACT # DLA-40086-C-1205, CONTAINERMARKED WITH CAGE 81348 (GENERIC GOV'T GAGE). USED SAX/ALDRICH/NFPA GUIDE TO MAKE

HCC:F2 Boiling Pt:=110.6C, 231.F Melt/Freeze Pt:=-95.C, -139.F Vapor Pres:37MMHG@30C Vapor Density:3.14 Spec Gravity:0.867 Evaporation Rate & amp; Reference:2.2(N-BUTYL ACETATE=1) Solubility in Water:NEGLIGIBLE Appearance and Odor:CLEAR , COLORLESS LIQUID WITH BENZENE-LIKE ODOR. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, CONCENTRATED NITRIC OR SULFURIC ACID, HALOGENS OR MOLTEN SULPHUR, CERTAIN PLASTICS OR RUBBERS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION; INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE; ACRID S

MOKE AND IRRITATING FUMES.

Waste Disposal Methods:DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. REPORTABLE QUANTITY FOR RELEASES IS 1000 POUNDS. EPA/RCRA WASTE NUMBERS U220, DOO1 MAY APPLY TO UNUSED PRODUCT.

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