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MORTON THIOKOL, INC: MORTON CHEMICAL DIVISION -- SOLITHANE 113 -- 8030-00-180-6307

Product ID:SOLITHANE 113 MSDS Date:02/24/1989 FSC:8030 NIIN:00-180-6307 MSDS Number: BPRDC === Responsible Party === Company Name: MORTON THIOKOL, INC: MORTON CHEMICAL DIVISION Address:333 WEST WACKER DRIVE City:CHICAGO State:IL ZIP:60606-1292 Country:US Info Phone Num:312-807-3421 Emergency Phone Num:815-338-1800 (24 HOURS) CAGE:07703 === Contractor Identification === Company Name: CORDANT TECHNOLOGIES INC. THIOKOL PROPULSION Address:9160 N HWY 83 Box:707 City:BRIGHAM CITY State:UT ZIP:84302-0707 Phone:435-863-8545,435-863-3325 CAGE:07703 Company Name: MORTON INTERNATIONAL, INC Address:100 NORTH RIVERSIDE PLAZA Box:City:CHICAGO State:IL ZIP:60606 Country:US Phone:312-807-3422/714-373-2837 EXT CAGE:7W447

Ingred Name: TOLUENE DIISOCYANATE/TDI (SARA III) CAS:584-84-9 RTECS #:CZ6300000 Fraction by Wt: 6-7% Other REC Limits:NONE SPECIFIED OSHA PEL:C,0.02 PPM/0.02 STEL ACGIH TLV:0.005PPM/0.02STEL;93 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS LD50 LC50 Mixture:LD50:5800MG/KG ORL-RAT;MORE INFO ON FILE Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:SKIN: REDDENING, DRYNESS, DERMATITIS, SWE LLING, BLISTERING. REPEAT CONTACT: SKIN SENSITIZATION. EYE: HARMFUL. SEVERE IRRITATION, CORNEA EDEMA, MECHANICAL IRRIT. INHALATION: RESPIRATORY TRACT MUCOUS ME MBRANE IRRIT, HEADACHE, NARCOTIC EFFECT, UNCONSCIOUSNESS, BREATHLESSNESS, CHEST DISCOMFORT, REDUCED PULMONARY FUNCTION. Explanation of Carcinogenicity: TOLUENE DIISOCYANATE IS CONSIDERED A SUSPECT CARCINOGEN AS TESTED BY NTP IN RATS & FEMALE MICE. Effects of Overexposure: INGEST: IRRITATION, CORROSIVE ACTION ON MOUTH &

STOMACH TISSUE. GI IRRIT, NAUSEA, DROWSINESS, UNCONSCIOUSNESS. IRRITATION OF EYES, NOSE & THROAT. WEAKNESS. ASTHMATIC SYMPTOMS. Medical Cond Aggravated by Exposure:PERSONS W/PRE-EXISTING SKIN DISORDERS, PERSONS W/IMPAIRED PULMONARY FUCTION, ESPECIALLY OBSTRUCTIVE AIRWAY DISEASES, & PERSONS W/PRE-EXISTING PULMONARY PROBLEMS SUCH AS ASTHMA MAY BE MORE SUSCEPTIBLE.

First Aid:EYE: IMMEDIATELY RINSE W/CONSTANT S TREAM OF FRESH WATER 15

MIN, LIFTING EYELIDS FREQUENTLY. SEE DR IMMEDIATELY. SKIN: REMOVE CONTAMINATED CLOTHING & WASH EXPOSED SKIN W/WARM WATER & SOAP. IF IRRIT PRE SENT AFTER WASHING, GET MEDICAL ATTENTION. INHAL: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RESPIRATION. KEEP WARM & AT REST. GET MED AID IMMED. INGEST: DONT INDUCE VOMITING.

Flash Point Method:SCC Flash Point:>200F,

>93C Extinguishing Media: USE FOAM, DRY CHEMICAL Fire Fighting Procedures: FULL EMERGENCY EQUIPMENT WITH NIOSH/MSHA APPROVED SELF-CONTAINED FULL FACE POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE WORN. Unusual Fire/Explosion Hazard:NONE KNOWN Spill Release Procedures: STOP SPILL, CONTAIN W/DIKE/BARRIER/ETC. RECOVER W/PUMPING EQUIP, VACUUM TRUCK, SORBENTS, OTHER MEANS. OPEN CNTNRS SHOULD NOT BE CLSD FOR DISPOSAL UNTIL ALL FOAMING/BUBBLING STOPPED. PLACE MATERIAL IN CNTNRS. HAZARDOUS, ABOVE RQ, CALL 800-424-8802. Neutralizing Agent:NEUTRALIZE BY SOAKING W/5% AMMONIA SOLUTION OR WATER W/10% ISOPROPANOL. Handling and Storage Precautions: USE W/VENT. BOND, GROUND CNTNRS DURING POURING, DISPENSING, MIXING. STORE BETWEEN 50 & 100F IN DRY AREA. STORAGE AT HIGHER TEMPS CAUSES POLYMERIZATION Other Precautions: FOR INDUSTRIAL USE ONLY. USE WITH ADEQUATE VENTILATION. AVOID SKIN CONTACT. EYEWASH AND SHOWER SHOULD BE AVAILABLE. ALWAYS WASH-UP AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM FACILITIES. Respiratory Protection: USE NIOSH/MSHA RESP PROTECTION W/IN EQUIP LIMITATIONS. CONSULT OSHA 29 CFR 1910.134, RESP PROTECTION. SCBA/AIRLINE RESPIRATORS MAY BE REQ'D FOR PROTECT AGAINST ISOCYANATE. CONSULT INDU ST HYGIENIST TO DETERMINE RESPIRATOR SELECTION, TRAINING. Ventilation: EXHAUST VENTILATION AT ALL VAPOR RELEASE POINTS IS RECOMMENDED TO MAINTAIN VAPOR BELOW LOWEST TLV OF SUBSTANCE IN MIX. Protective Gloves: CHEMICAL RESISTANT GLOVES Eye Protection: SFTY GLASSES, FACE SHLD 8", CHEM GOGGLES Other Protective Equipment: WORK CLOTHING FOR GENERAL BODY PROTECTION & OTHER PROTECTIVE CLOTHING AS NEEDED TO PREVENT REPEAT/PROLONG SKIN CONTACT. Work Hygienic Practices: WASH THOROUGHLY AFTER HAND

LING PRODUCT. ALWAYS WASH UP BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM FACILITIES. Supplemental Safety and Health

OBTAIN MEDICAL ATTENTION IMMEDIATELY, IF UNAVAILABLE CONTACT NEAREST POISON CONTROL CENTER. KEEP AFFECTED PERSON WARM AND AT REST. NOTE TO PHYSICIAN: SUPPORTIVE THERAPY IS RECOMMENDED. NO KNOWN ANTIDO TE. CAREFUL LAVAGE MAY BE INDICATED AFTER INGESTION.

HCC:T6 Boiling Pt:B.P. Text:482F ,250C Vapor Density:>6 Spec Gravity:1.073 (WATER=1) Evaporation Rate & amp; Reference: