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NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND -- PERMA-LOK (R) LM 113 P/N 78-4311 --8030-01-054-3968 Product ID:PERMA-LOK (R) LM 113 P/N 78-4311 MSDS Date:12/31/1991 FSC:8030 NIIN:01-054-3968 MSDS Number: BSHMF === Responsible Party === Company Name:NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND Address: FINDERNE AVE Box:6500 City:BRIDGEWATER State:NJ ZIP:08807 С ountry:US Info Phone Num:908-685-5800 Emergency Phone Num:908-685-5800 Preparer's Name: PHILIP A TOSCANO CAGE:85091 === Contractor Identification === Company Name:NATIONAL STARCH AND CHEMICAL CORP Address:10 FINDERNE AVE Box:6500 **City:BRIDGEWATER** State:NJ ZIP:08807 Country:US Phone:908-685-5379; FAX:908685-5306 CAGE:85091

Ingred Name:TETRAETHYLENEGLYCOL DIMETHACRYLATE CAS:109-17-1 Fraction by Wt: >1% Other REC Limits:NONE SPEC IFIED

Ingred Name:HYDROXYETHYL METHACRYLATE (ORAL LD50 1250 MG/KG RAT) CAS:868-77-9 RTECS #:OZ4725000 Fraction by Wt: >1% Other REC Limits:NONE SPECIFIED

Ingred Name:CUMENE HYDROPEROXIDE (SARA III) (ORAL LD50 800 MG/KG RAT 83% SOLUTION;DERMAL LD50 1.13 RAT;INHAL LC50 700 PPM/6HR RAT) CAS:80-15-9 RTECS #:MX2450000 Fraction by Wt: >1% Other REC Limits:NONE SPECIFIED EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:VOC: 0.09 LBS/GAL (10 G/L) RTECS #:9999999VO Other REC Limits:NONE SPECIFIE D

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE: IRRITATING, INJURE TISSUE IF NOT
REMOVED PROMPTLY. SKIN: FREQUENT/PROLONGED CONTACT: IRRITATE,
DERMATITIS. SENSITIZATION, DERMATITIC RASH. INHALATION: NOT HAZARD
UNDER NORMAL CONDITIONS. IRRITATI NG/TOXIC VAPORS MAY BE RELEASED
AT ELEVATED TEMPERATURES. INGESTION
NOT EVALUATED, ASSUMED TO
CAUSE NAUSEA & VOMITING.
Effects of Overexposure:CHRONIC: IN CERTAIN INDIVIUALS, SENSITIZATION
MAY OCCUR DAUSING DERMATITIS WITH EVEN MINIMAL CONTACT. DUE TO SKIN
ABSORPTION WITH EXCESSIVE CONTACT, PRODUCT MAY PRODUCE NERVOUS
SYSTEM EFFECTS, I.E., A TAXIA. TARGET ORGANS: EYES
AND SKIN

First Aid:EYE:IMMED FLUSH W/WATER 15 MIN,LIFT EYELIDS. GET PROMPT MED AID. SKIN:FLUSH W/

SOAP & WATER TILL CHEMICAL REMOVED.REMOVE CONTAM CLOTHES. WASH BEFORE REUSE. INHAL:NOT NORMALLY REQ'D. REMOVE TO FRESH AIR . IF BREATH DIFFICULT,GIVE OXYGEN;IF STOPPED,GIVE ARTIF RESP. GET MED AID. INGEST:DO NOT INDUCE VOMITING. IF CONSCIOUS,GIVE MILK/WATER (NOTHING TO UNCONSCIOUS). KEEP WARM/QUIET. GET PROMPT MED AID.

Flash Point Method:SCC Flash Point:230F,110C Extinguishing Media:CO2, DRY CHEMICAL, FOAM , WATER FOG Fire Fighting Procedures:EQUIP FIRE FIGHTERS WITH SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. COOL EXPOSED EQUIPMENT WITH WATER SPRAY. Unusual Fire/Explosion Hazard:POLYMERIZATION MAY TAKE PLACE AT ELEVATED TEMPERATURES.

Spill Release Procedures:WEAR PROTECTIVE CLOTHING. STOP LEAK IF W/OUT RISK. SMALL: TAKE UP W/SAND, ETC. PLACE IN CONTAINER. LARGE: ABSORBED MAT'L MAY POLYMERIZE (GENERATE HEAT, PRESSURE). VENT CONTAINER TO PREVENT BUILDUP OF PRESSURE.

Handling and Storage Precautions: AVOID EXCESSIVE HEAT. STORE AT ROOM TEMPERATURES, OUT OF DIRECT SUNLIGHT IN A DRY AREA. MAXIMUM STORAGE TEMEPRATURES IS 100 F.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING CONITIONS. USE N

IOSH APPROVED RESPIRATOR IF VAPOR OR MISTS LEVELS ARE IRRITATING.

Ventilation:GENERAL

Protective Gloves: PROTECTIVE GLOVES TO PREVENT

Eye Protection: SAFETY GLASSES, GOGGLES OR FACE SHIELD

Other Protective Equipment:NO SPECIAL CLOTHING REQUIRED FOR LOW VOLUME ACTIVITY. REMOVE CLOTHES AND WASH BEFORE REUSE IF CONTAMINATED WITH PRODUCT.

Work Hygienic Practices:WASH HANDS WITH SOAP & WATER IF CONTACT W/PRODUCT OCCURS OR BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health

HCC:T6 Boiling Pt:B.P. Text:POLYMERIZES Vapor Pres:0.01 @ 77F Vapor Density:1.01 Spec Gravity:1.070 (WATER=1) Viscosity:1000 CPS Evaporation Rate & amp; Reference:NOT NOTED Solubility in Water:INSOLUBLE Appearance and Odor:PURPLE LIQUID MILD PLEASANT ODOR Percent Volatiles by Volume: