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Product ID:PERMA-LOK (R) HM 118 P/N 78-4307 MSDS Date:12/31/1991 FSC:8030 NIIN:01-142-3131 **MSDS Number: BSHND** === Responsible Party === Company Name:NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND Address: FINDERNE AVE Box:6500 City:BRIDGEWATER State:NJ ZIP:08807 Co untry:US Info Phone Num:908-685-5000 Emergency Phone Num:908-685-5000 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

======= Composition/Information on Ingredients ==========

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

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 SPECIFIED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE: IRRITATION, INJURE EYE TISSUE IF
NOT REMOVED PROMPTLY. SKIN: FREQUENT/PROLONGED CONTACT: IRRITATE,
DERMATITIS. SENSITIZATION, DERMATITIC RASH. INHALATION: NOT
RESPIRATORY HAZARD UNDER NORMAL COND ITIONS. IRRITATING/TOXIC VAPOR
RELEASEDAT ELEVATED TEMPS. INGESTION:
NOT EVALUATED, ASSUMED TO
CAUSE NAUSEA & VOMITING.
Effects of Overexposure:CHRONIC: IN CERTAIN INDIVIDUALS, SENSITIZATION
MAX OCCUR CAUSING DERMATITIS WITH EVEN MINIMAL CONTACT. DUE TO SKIN

MAY OCCUR CAUSING DERMATITIS WITH EVEN MINIMAL CONTACT. DUE TO SKIN ABSORPTION WITH EXCESSIVE CONTACT, PRODUCT MAY PRODUCE NERVOUS SYSTEM EFFECTS, I.E., ATAXIA. TARGET ORGANS: SKIN AND EYES

First Aid:EYE:IMMED FLUSH W/WATER 15 MIN,LIFT EYELIDS.GET PROMPT MED AID.SKIN:FLUSH EXPOSED AR EAS 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 RESPIRATION.GET MED AID. INGEST:DON'T INDUCE VOMITING.IF CONSCIOUS GIVE MILK/WATER(NOTHING TO UNCONSCIOUS)KEEP WARM/QUIET.GET MED AID.

Flash Point Method:SCC Flash Point:230F,110C Extinguishing Media:CO2, DRY CHEMICAL, FOAM, WA TER 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 WITHOUT RISK. SMALL: TAKE UP WITH 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 TEMPERATURE OUT OF DIRECT SUNLIGHT IN A DRY AREA. MAXIMUM STORAGE TEMPERATURE IS 100 F.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS. USE NI

OSH APPROVED RESPIRATOR IF VAPOR OR MIST LEVELS ARE IRRITATING.

Ventilation:GENERAL

Protective Gloves: PROTECTIVE GLOVES TO PREVENT CONTACT

Eye Protection: SAFETY GLASSES, GOGGLES OR FACE SHIELD

Other Protective Equipment:NO SPECIAL CLOTHING REQUIRED FOR LOW VOLUME ACTIVITY. REMOVE CLOTHING & LAUNDER BEFORE REUSE IF CONTAMINATED W/PRODUCT.

Work Hygienic Practices: WASH HANDS WITH SOAP AND WATER IF CONTACT WITH PRODUCT OCCURS OR BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM. Boiling Pt:B.P. Text:POLYMERIZES Vapor Pres:0.01 @ 77F Vapor Density:1.01 Spec Gravity:1.070 (WATER=1) Viscosity:1800 CPS Solubility in Water:INSOLUBLE Appearance and Odor:RED LIQUID; MILD PLEASANT ODOR Percent Volatiles by Volume: