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NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND -- PERMA-LOK (R) HM 118 P/N 78-4307 -- 8030-01-142-3131

============= Product Identification ==================

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

========= Hazards Identification ==============

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 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. ============ Fire Fighting Measures ========================= 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 =========================== 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

Work Hygienic Practices: WASH HANDS WITH SOAP AND WATER IF CONTACT WITH PRODUCT OCCURS OR BEFORE EATING, DRINKING, SMOKING OR USING

W/PRODUCT.

RESTROOM.

Supplemental Safety and Health

======== Physical/Chemical Properties ==========

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: