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NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND -- PERMA-LOK (R) HM 128 P/N 78-4308 -- 8030-01-158-6070

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

Product ID:PERMA-LOK (R) HM 128 P/N 78-4308

MSDS Date:12/31/1991

FSC:8030

NIIN:01-158-6070

MSDS Number: BSHNL === 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

Ingred Name: HYDROXYETHYL METHACRYLATE (ORAL LD40 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 800MG/KG RAT 83%

SOLUTION; DERMAL LD50 1.3ML/KG RAT; INHAL LC50 700PPM/6HR)

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

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========= 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:ACUTE: EYE: IRRITATING, INJURE TISSUE IF NOT REMOVED PROMPTLY. SKIN: FREQUENT/PROLONGED CONTACT: IRRITATE, DERMATITIS. SENSITIZATION, DERMATITIC RASH. INHALATION: NOT HAZARDOUS UNDER NORMAL USE. IRRIT ATING/TOXIC VAPORS RELEASED AT ELEVATEDTEMPS. INGESTION: NOT EVALUATED,

ASSUMED TO CAUSE NAUSEA

AND 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.

Medical Cond Aggravated by Exposure: N/K

TARGET ORGANS: SKIN; EYES.

First Aid:EYE:IMMED FLUSH W/WATER 15 MIN,

LIFT EYELIDS.GET PROMPT MED
AID. SKIN:FLUSH EXPOSD AREAS W/SOAP & WATER TILL CHEMICAL
REMOVED.REMOVE CONTAMNTD CLOTHING & WASH BEFORE REUSE. INHAL:NOT
NORMALLY REQ'D.REM OVE TO FRESH AIR.IF BREATHING DIFFICULT,GIVE

OXYGEN;IF STOPPED,GIVE ARTIF RESP.GET MED AID. INGEST:DON'T INDUCE VOMIT. IF CONSCIOUS,GIVE (NOTHING TO UNCONSCIOUS) WATER/MILK.KEEP WARM/QUIET.GET 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.

======== Accidental Release Measures ===========

Spill Release Procedures:WEAR PROTECT CLOTH. STOP LEAK IF W/OUT RISK.SMALL: T

AKE UP W/SAND,ETC. PLACE IN CNTNR. LARGE:PRODUCT MAY POLYMERIZE (GENERATE HEAT & PRESSURE) VENT DISPOSAL CNTNR TO PREVENT BUILDUP OF PRESSURE.

========== Handling and Storage ==============

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

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

Respiratory Protection: NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS.

USE NIOSH 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 AND LAUNDER BEFORE REUSE IF CONTAMINATED W/PRODUCT

Work Hygienic Practices: WASH HANDS WITH SOAP & WATER IF CONTACT WITH PRODUCT OCCURS BEFORE EATING, DRINKING, SMOKI

NG OR USING TOILET FACILITIES. 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:500 CPS

Solubility in Water: INSOLUBLE

Appearance and Odor:RED LIQUID; MILD, PLEASANT ODOR

Percent Volatiles by Volume: