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NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND -- PERMA-LOK (R) HH 120 P/N 78-4309 -- 8030-01-063-7510

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

Product ID:PERMA-LOK (R) HH 120 P/N 78-4309

MSDS Date:12/31/1991

FSC:8030

NIIN:01-063-7510

MSDS Number: BSHMG === 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:908-685-5000

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 SPEC

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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

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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:EYE: IRRITATING, INJURE TISSUE IF NOT REMOVE PROMPTLY. SKIN: FREQUENT/PROLONGED CONTACT: IRRITATE, DERMATITIS. SENSITIZATION, DERMATITIC RASH. INHALATION: NOT HAZARDOUS UNDER NORMAL CONDITIONS. IRRITA TING/TOXIC VAPORS RELEASED AT ELEVATED TEMPERATURES. 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.

TARGET ORGANS: SKIN, EYES

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

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

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

Flash Point Method:SCC Flash Point:230F,110C

Extinguishing Media:CO2, DRY CHEMI

AL, 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 PROTECTIVE CLOTHES. STOP LEAK IF W/OUT RISK. SMALL: TAKE UP W/SAND, ETC. PLACE IN CONTAINER.

LARGE:

ABSORBED INERTA MATERIAL MAY POLYMERIZE (GENERATE HEAT & PRESSURE). VENT CONTAINER TO PREVENT B UILDUP 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 100F.

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

Respiratory Protection: NONE REQUIRED UNDER NORMAL HANDLING CONDIT IONS.

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 & LAUNDER BEFORE REUSE IF CONTAMINATED W/PRODUCT.

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

ILET
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:7000 CPS

Evaporation Rate & Dr Reference: NOT NOTED

Solubility in Water:INSOLUBLE

Appearance and Odor:RED LIQUID; MILD PLEASANT ODOR

Percent Volatiles by Volume: