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NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND -- PERMA-LOK (R) ML 037 P/N 82-9883 -- 8030-00-456-1038

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

Product ID:PERMA-LOK (R) ML 037 P/N 82-9883

MSDS Date:12/31/1991

FSC:8030

NIIN:00-456-1038

MSDS Number: BSHJY === 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 REMOVED PROMPTLY. SKIN: FREQUENT/PROLONGED CONTACT: IRRITATE, DERMATITIS. SKIN SENSITIZATION, DERMATITIC RASH. INHALATION: NOT HAZARD UNDER NORMAL CONDITIONS. ING ESTION: NOT EVALUATED, ASSUMED TO CAUSENAUSEA 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 AND EYES.

First Aid:EYE:IMMED FLUSH W/WATER 15 MIN,LIFT EYELID. GET PROMPT MED AID. SKIN: FLUSH W/SOAP & WATER TILL CHEMICAL REMOVED. REMOVE CONTAM CLOTHES. WASH B

EFORE REUSE. INHAL:NOT NORMALLY REQ'D. REMOVE
TO FRESH AI R. IF BREATH DIFFICULT, GIVE OXYGEN; IFSTOPPED, GIVE
ARTIF RESP. GET MED AID. INGEST:DON'T INDUCE VOMIT. IF CONSCIOUS,
GIVE WATER/MILK (NOTHING TO UNCONSCIOUS). KEEP WARM & QUIET. GET
PROMPT MED AID.

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

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

Extinguishing Media:CO2, DRY CHEMIAL, FOAM, WATER FOG Fire Fighting Procedures:EQUIP FIRE FIGHTERS WITH SELF-C

ONTAINED

BREATHING APPARATUS TO PROTECT AGAINST POTENTIALLY TOXIC & 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 CLOTHES. STOP LEAK IF WITHOUT RISK. SMALL SPILL: TAKE UP W/SAND, ETC. PLACE IN CONTAINR FOR LATER DISPOSAL. LARGE SPILL: ABSORBED MATERIAL MAY POLYMERIZE (GENE RATE

HEAT & PRESSURE). VENT DISPOSAL 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 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 REQUIREMENTS FOR LOW VOLUME ACTIVITY. REMOVE CLOTHES, WASH BEFORE REUSE IF CONTAMINATED WITH PRODUCT

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

Supplemental Safety a

nd Health

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

HCC:N1

Boiling Pt:B.P. Text:POLYMERIZES

Vapor Pres:0.01 @ 77F

Vapor Density:1.01

Spec Gravity:1.070 (WATER=1)

Evaporation Rate & Dr. Reference: NOT NOTED

Solubility in Water: INSOLUBLE

Appearance and Odor:YELLOW LIQUID; MILD, PLEASANT ODOR

Percent Volatiles by Volume: