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NATIONAL STARCH & CHEMICAL COMPANY; PERMABOND -- PERMA-LOK (R) MM 115 P/N 78-4310 -- 8030-01-014-5869

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

Product ID:PERMA-LOK (R) MM 115 P/N 78-4310

MSDS Date:02/01/1993

FSC:8030

NIIN:01-014-5869

MSDS Number: BSHLN === 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: TETRAETHYLENE GLYCOL DIMETHACRYLATE

CAS:109-17-1 Fraction by Wt: >1%

Other REC Limits: NONE SPE

CIFIED

Ingred Name: HYDROXYETHYL METHACRYLATE (ORAL LD50 1250.0 MG/KG RAT)

CAS:868-77-9

RTECS #:OZ4725000 Fraction by Wt: >1%

Other REC Limits:MFR: 3.000 PPM

Ingred Name: CUMENE HYDROPEROXIDE (SARA III) (ORAL LD50 800.0 MG/KG

RAT; DERMAL LD50 1.1 ML/KG RAT; INHAL LC50 700.0 PPM/6 HR 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 SPECIF

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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 OR PROLONGED CONTACT: IRRITATE, DERMATITIS. SENSITIZATION, DERMATITIC RASH. INHALATION:NOT RESPIRATORY HAZARD UNDER NORMAL CONDIT IONS. IRRITATING/TOXIC

VAPORS 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., A TAXIA. TARGET

ORGANS: EYES AND SKIN.

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

H W/SOAP & WATER TILL CHEMICAL GONE. REMOVE CONTAM CLOTHING, WASH BEFORE REUSE. INHAL: FIRST AID NOT NORMALLY REQUIRED. REMOVE TO FRESH AIR. IF BREATHING DIFFICULT, GIVE OXYGEN; IF STOPPED, GIVE ARTIF RESP. 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 CHEMICA

L, 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 CLOTHING. STOP LEAK IF WITHOUT RISK. SMALL SPILL: TAKE UP WITH SAND, ETC. PLACE IN CONTAINERS

(LATER DISPOSAL). LARGE SPILL: ABSORBED PRODUCT 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 TEMPERATURES IS 100 F.

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

Respiratory Protection: NONE REQU

IRED 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 CLOTHES, WASH BEFORE REUSE IF CONTAMINATED WITH PRODUCT.

Work Hygienic Practices: WASH HANDS WITH SOAP & WATER OR BEFORE EATING, DRINKING, SMOKING, OR USI

NG TOILET FACILITIES.
Supplemental Safety and Health

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

Vapor Pres:0.01 @ 77F Vapor Density:1.01 Viscosity:1000 CPS Evaporation Rate & Dercent Volatiles by Volume: