

NATIONAL STARCH & CHEMICAL CO; PERMABOND -- PERMA-LOK (R) ML 124 P/N 78-4477 --
8030-01-181-5549

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

Product ID:PERMA-LOK (R) ML 124 P/N 78-4477

MSDS Date:12/31/1991

FSC:8030

NIIN:01-181-5549

MSDS Number: BSHNM

=== Responsible Party ===

Company Name:NATIONAL STARCH & CHEMICAL CO; PERMABOND

Address:FINDERNE AVE

Box:6500

City:BRIDGEWATER

State:NJ

ZIP:08807

Country: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 SPECIFIED

Ing

red 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 800MG/KG-RAT 83%
SOLUTN;DERMAL LD50 1.13ML/KG-RAT;INHAL LC50 700PPM/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

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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 EYE

TISSUE IF NOT REMOVE PROMPTLY. SKIN: FREQUENT OR PROLONGED CONTACT:
IRRITATE, DERMATITIS. SKIN SENSITIZATION, DERMATITIC RASH.

INHALATION: IRRITATING/TOXIC VAPOR MAY BE RELEASED AT ELEVATED
TEMPS. INGESTION: NOT EVALUATED, CUT ASSUMED TO CAUS

E NAUSEA AND

VOMITING.

Effects of Overexposure:CHRONIC: IN CERTAIN INDIVIUALS, SENSITIZATION

MAY OCCUR CAUSING DERMATITIS WITH EVEN MINIMAL CONTACT. DUE TO SKIN
ABSORPTION WITH EXCESSIVE CONTACT, PRODUCT MAY PRODUCE NERVOUS
SYSTEM EFFECT, I.E., AT AXIA. TARGET ORGANS: SKIN; EYES.

===== First Aid Measures =====

First Aid:EYE:IMMED FLUSH W/WATER 15 MIN,LIFT EYE LIDS.GET PROMPT MED
AID. SKIN:FLUSH W/SOAP & WATER TILL CHEMICAL REMOVED.R

EMOVE

CONTAMINTD CLOTHES & WASH BEFORE REUSE. INHAL:NOT NORMALLY REQ'D.REMOVE TO FRESH AIR.IF BREATHING DIFFICULT,GIVE OXYGEN;IF STOPPED,GIVE ARTIF RESPRTN.GET MED AID. INGEST:DON'T INDUCE VOMIT.IF CONSCIOUS (NOTHING TO UNCONSCIOUS) GIVE MILK/WATER.KEEP WARM & QUIET.GET PROMPT MED AID.

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

Flash Point Method:SCC

Flash Point:230F,110C

Extinguishing Media:CO2, DRY CHEMICAL, FOAM, WATER FOG

Fire Fighting Procedu

res: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 CLOTHING. STOP LEAK IF WITHOUT RISK. FOR SMALL SPILLS TAKE UP WITH SAND OR OTHER INERT ABSORBENT MATERIAL & PLACE IN CNTNR

. IN BULK QTY PRODUCT ABSORBED MAY

POLYMERIZE (GENERATES HEAT). V ENT DISPOSAL CONTAINER TO PREVENT PRESSURE BLDUP.

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

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

===== 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, FACE SHIELD

Other Protective Equipment:NO SPECIAL CLOTHING REQUIRED FOR LOW VOLUME ACTIVITY.

Work Hygienic Practices:REMOVE CLOTHES & WASH BEFORE REUSE IF CONTAM.

WASH HANDS W/SOAP & WATER IF CONTACT/BEFORE EAT,DRINK,SMOKING,USING TOILET

Supplemental Safety and Health

===== Physical/Chemi

cal Properties =====

Boiling Pt:B.P. Text:POLYMERIZES

Vapor Pres:0.01 @ 77F

Vapor Density:1.01

Spec Gravity:1.070 (WATER=1)

Viscosity:25 CPS

Evaporation Rate & Reference:NOT NOTED

Solubility in Water:INSOLUBLE

Appearance and Odor:BLUE LIQUID; MILD, PLEASANT ODOR

Percent Volatiles by Volume:< 1

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

METALS & THEIR SALTS, PERMA-LOK (R) ANAEROBIC SURFACE CONDITIONERS.

Hazar

dous Decomposition Products:THERMAL DECOMPOSITION COULD PRODUCE
CARBON MONOXIDE, CARBON DIOXIDE, AND UNIDENTIFIED ORGANIC
COMPOUNDS.

Conditions to Avoid Polymerization:ANAEROBIC.POLYMERIZE IN ABSENCE OF
AIR.SUNLIT,EXCESSV HEAT, METAL CONTAM/ANAEROBIC SURFC CONDI(LRG
QTY)CAUSE POLYERIZTN.

===== Disposal Considerations =====

Waste Disposal Methods:WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH
EXISTING FEDERAL, STATE, AND LOCAL ENVIRONMENTAL. CAN
CAREFULLY

SOLIDIFY WITH ANAEROBIC SURFACE CONDITIONER AND DISPOSE OF AS SOLID
WASTE.

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