

NATIONAL STARCH AND CHEMICAL CORPORATION -- PERMA-LOK (R) HL 126 P/N 78-4290 --
8030-00-111-2763

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

Product ID:PERMA-LOK (R) HL 126 P/N 78-4290

MSDS Date:12/31/1991

FSC:8030

NIIN:00-111-2763

MSDS Number: BSHRD

=== Responsible Party ===

Company Name:NATIONAL STARCH AND CHEMICAL CORPORATION

Address:10 FINDERNE AVENUE

Box:6500

City:BRIDGEWATER

State:NJ

ZIP:08807

Country:US

Info Phone Num:908-685-5000

Emergency Phone Num:908-685-500

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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

Ingred Name:HYDROXYETHYL METHACRYLATE (ORAL LD50: 1250 MG/KG

ORAL-RAT;
588 MG/KG ORAL-MOUSE.
CAS:868-77-9
RTECS #:OZ4725000
Fraction by Wt: > 1%
Other REC Limits:NONE SPECIFIED

Ingred Name:CUMENE HYDROPEROXIDE (SARA 313) (ORAL LD50: 800 MG/KG
[RAT]; DERMAL LD50: 1.13 ML/KG [RAT]; 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 SPECIFIED

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Hazards Identification

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO
Health Hazards Acute and Chronic:EYES: IRRITATING, & MAY INJURE EYE
TISSUE PERMANENTLY. SKIN: FREQUENT/PROLONGED CONTACT MAY IRRITATE &
CAUSE DERMATITIS. MAY CAUSE SKIN SENSITIZATION, DERMATITIC RASH.
CORROSIVE, MAY CAUSE PERMANENT SKIN DAMAGE. INHALATION:
IRRITATING/TOXIC VAPORS RELEASED AT ELEVATED TEMPERATURES.

Effects of
Overexposure:INGESTION: NOT EVALUATED, ASSUMED TO CAUSE
NAUSEA & VOMITING. SENSITIZATION MAY OCCUR CAUSING DERMATITIS WITH
MINIMAL CONTACT.
Medical Cond Aggravated by Exposure:DUE TO SKIN ABSORPTION WITH
EXCESSIVE CONTACT PRODUCT MAY PRODUCE NERVOUS SYSTEM EFFECTS, I.E.;
ATAXIA. TARGET ORGANS: SKIN; EYES.

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First Aid Measures

First Aid:EYE: IMMED FLUSH W/LARGE AMOUNT WATER 15 MINUTES, LIFT
EYELIDS. GET MED AID. SKIN: FLUSH W/S

OAP & WATER TIL ALL CHEMICAL

GONE. INHALATION: FIRST AID NOT NORMALLY REQUIRED. REMOVE TO FRESH AIR. RESTORE BREATHING. GET MED AID. INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE MILK OR WATER TO DILUTE STOMACH CONTENTS. KEEP WARM & QUIET. GET PROMPT MED AID. NOTHING BY MOUTH TO UNCONSCIOUS PERSON.

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

Flash Point Method:SCC

Flash Point:230F,110C

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

Fire Fighting Procedures:FIRE FIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS (SCBA) TO PROTECT AGAINST POTENTIALLY TOXIC & IRRITATING FUMES.

Unusual Fire/Explosion Hazard:COOL EXPOSED EQUIPMENT WITH WATER SPRAY. POLYMERIZATION MAY TAKE PLACE AT ELEVATED TEMPERATURES.

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

Spill Release Procedures:WEAR PROTECTIVE CLOTHING. STOP LEAK, IF SAFE.

SMALL SPILLS: TAKE UP W/SAND OR INERT MATERIAL. PLACE IN CONTAINER.

LRG SPILL: ABSORBED ON INERT MATERIAL MAY POLYMERIZE GENERATING HEAT & PRESSURE. VENT DISPOSAL CONTAINER TO PREVENT PRESSURE BUILDUP.

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

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

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

Respiratory Protectio

n:NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS.

USE NIOSH APPROVED RESPIRATOR IF VAPOR OR MIST LEVELS ARE IRRITATING.

Ventilation:GENERAL

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:SAFETY GLASSES, GOGGLES OR FACE SHIELD

Work Hygienic Practices:WASH HANDS BEFORE EATING,SMOKING,DRINKING,USING RESTROOM FACILITIES. REMOVE & WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Bo

iling Pt:B.P. Text:POLYMERIZES

Vapor Pres:0.01 @ 77F

Vapor Density:1.01 AIR=1

Spec Gravity:1.070 (WATER=1)

Viscosity:15 CPS

Evaporation Rate & Reference:NOT NOTED

Solubility in Water:INSOLUBLE

Appearance and Odor:GREEN 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.

Stability Condition to Avoid:ANAEROB

IC & POLYMERIZE IN ABSENCE OF AIR.

POLYMRZD BY SUNLIGHT,HEAT,CONTAM BY METALS/ANAEROBIC SRFC

CONDITIONER(LRG QTY)

Hazardous Decomposition Products:THERMAL DECOMPOSITION COULD PRODUCE

CARBON MONOXIDE, CARBON DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS.

Conditions to Avoid Polymerization:ANAEROBIC,POLYMERIZES(ABSENCE OF

AIR). POLYMRZD BY SUNLIGHT,HEAT,CONTAMINTN BY METALS/ANEROBIC SURFC

CONDITIONER(LRG QTY)

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

Was

te Disposal Methods:CAN CAREFULLY SOLIDIFY WITH ANAEROBIC SURFACE

CONDITIONER AND DISPOSE OF AS SOLID WASTE. WASTE DISPOSAL SHOULD BE

IN ACCORDANCE WITH EXISTING LOCAL, STATE & FEDERAL ENVIRONMENTAL

REGULATIONS.

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