

NATIONAL STARCH AND CHEMICAL CORPORATION -- PERMA-LOK (R) HL 126 P/N 78-4290 --
8030-00-111-2762

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

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

MSDS Date:12/31/1991

FSC:8030

NIIN:00-111-2762

MSDS Number: BSHRC

=== Responsible Party ===

Company Name:NATIONAL STARCH AND CHEMICAL CORPORATION

Address:10 FINDERNE AVENUE

Box:6500

City:BRIDGEWATER

State:NJ

ZIP:08807

Count

ry: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 SPECIF

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Ingred Name:HYDROXETHYL METHACRYLATE
CAS:868-77-9
RTECS #:OZ4725000
Fraction by Wt: > 1%
Other REC Limits:NONE SPECIFIED

Ingred Name:CUMENE HYDROPEROXIDE (SARA 313)
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 IF NOT REMOVED PROMPTLY. SKIN: FREQUENT OR PROLONGED CONTACT
MAY IRRITATE & CAUSE DERMATITIS. MAY CAUSE SKIN SENSITIZATION, A
PARTIAL OR WHOLE-BODY DERMATITIC RASH EXPERIENCED AFTER EXPOSURE,
HOWEVER MINIMAL. INHALATION: BASED ON ITS LOW VOLATILITY, PRODUCT
IS NOT CONSIDERED

Effects of Overexposure:TO BE A RESPIRATORY HAZARD UNDER NORMAL

CONDITIONS OF USE. IRRITATING &/OR TOXIC VAPORS MAY BE RELEASED AT
ELEVATED TEMPERATURES. INGESTION: INGESTION EFFECTS NOT EVALUATED
BUT ARE ASSUMED TO CAUSE NAUSEA & VOMITING. IN CERTAIN
INDIVIDUALS, SENSITIZATION MAY OCCUR CAUSING DERMATITIS WITH EVEN
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:EYES: IMMEDIATELY FLUSH WITH WATER 15 MINUTES, OPENING EYELIDS OCCASIONALLY. GET MED AID. SKIN: FLUSH W/SOAP & WATER UNTIL CHEMICAL REMOVED. INHALATION: FIRST AID NOT NORMALLY REQUIRED. REMOVE TO FRESH AIR. RESTORE BREATHING. GET MED AID. INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE MILK/WATER TO DILUTE STOMACH. KEEP WARM & QUIET. GET PROMPT MED AID. NOTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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==== 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 OTHER INERT MATERIAL. PLACE IN CONTAINER FOR LATER DISPOSAL. LRG SPILL: PRODUCT ABSORBED ON INERT MATERIAL MAY POLYMERIZE GENERATING HEAT & PRESSURE. VENT CONTAINER.

==== 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 Protection: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 CO

NTAMINATED CLOTHING BEFORE
REUSE.

Supplemental Safety and Health

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

HCC:N1

Boiling 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 =====

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Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:NOTE! PERMA-LOK(R) PRODUCTS ARE ANAEROBIC
& POLYMERIZE IN THE ABSENCE OF AIR. SUNLIGHT, EXCESSIVE HEAT, &
CONTAMINATION-

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

Conditions to Avoid Polymerization:-BY METALS OR ANAEROBIC SURFACE
CONDITIONER IN LA

RGE QUANTITIES, WILL ALSO CAUSE POLYMERIZATION.

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

Waste Disposal Methods:WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH
EXISTING LOCAL, STATE & FEDERAL ENVIRONMENTAL REGULATIONS. CAN
CAREFULLY SOLIDIFY WITH AN AEROBIC SURFACE CONDITIONER AND DISPOSE
OF AS SOLID WASTE.

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