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NATIONAL STARCH AND CHEMICAL CORP -- 78-4309, PERMA-LOK (R) HH 120 -- 8030-01-395-3019

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

Product ID:78-4309, PERMA-LOK (R) HH 120

MSDS Date:12/02/1997

FSC:8030

NIIN:01-395-3019 Status Code:A

MSDS Number: CKWGX === Responsible Party ===

Company Name: NATIONAL STARCH AND CHEMICAL CORP

Address:10 FINDERNE AVE

Box:6500

City:BRIDGEWATER

State:NJ ZIP:08807 Country:US

Inf

o Phone Num:908-685-5379; FAX:908685-5306 Emergency Phone Num:908-685-5000(24 HOURS)

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

Contract Num:N00104-00-P-BD97

CAGE:85091

======= Composition/Information on Ingredients ========

Ingred Name: TETRAETHYLENE GLYCOL, DIMETHACRYLATE

CAS:109-17-1

RTECS #:OZ4000000 > Wt:1.

Ingred Name:2-HYDROXYETHYL METHACRYLATE

CAS:868-77-9

RTECS #:OZ4725000

> Wt:1.

Other REC Limits: 3 PPM

Ingred Name: CUMENE HYDROPEROXIDE

CAS:80-15-9

RTECS #:MX2450000

> Wt:1.

**OSHA PEL:50 PPM SKIN** 

ACGIH TLV:50 PPM SKIN TWA

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

============ Hazards Identification =========================

LD50 LC50 Mixture:ORAL LD50 RAT= 382 MG/KG CUMENE HYDROPER Routes of Entry: Inhalation:UNKNOWN Skin:YES Ingestion:YES Health Hazard

s Acute and Chronic: TARGET ORGANS: SKIN, EYES. EYE:

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 DERMATATIC RASH EXPERIENCED AFTER EXPOSURE, HOWEVER MINIMAL. INHALATION: BASED ON ITS LOW VOLATILITY, PRODUCT IS NOT CONSIDEREDTO BE A RESPIRATORY HAZARD UNDER NORMAL CONDITIONS OF USE. IRRITATING &/OR TOXIC VAPORS MAY BE RELEASED AT E

LEVATED TEMPERATURES. INGESTION: EFFECTS

HAVE NOT BEEN EVALUATED BUT ARE ASSUMED TO CAUSE NAUSEA & VOMITING. CHRONIC: SKIN SENSITIZATION & DERMATITIS.

Effects of Overexposure:EYE: IRRITATION. SKIN:IRRITATION, DERMATATIC RASH, INGESTION: ASSUMED TO CAUSE NAUSEA & VOMITING.

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINS., LIFTING UPPER & LOWER LIDS. GET PROMPT MEDICAL

ATTENTION. SKIN: FLUSH EXPOSED AREAS THOROUGHLY WITH SOAP & WATER UNTIL AL L CHEMICAL IS REMOVED. REMOVE CONTAMINATED CLOTHING & LAUNDER BEFORE REUSE. INHALATION: FIRST AID IS NOT NORMALLY REQUIRED. REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF INDIVIDUAL IS CONSCIOUS, GIVE MILK OR WATER TO DILUTE STOMACH CONTENTS. KEEP WARM & QUIET. GET

Flash Point Method:SCC

Flash Point:=110.C, 230.F Autoignition Temp:Autoignition Temp Text:N/D

PROM PT MEDICAL ATTENTION.

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

Fire Fighting Procedures:FIRE FIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES; COOL EXPOSED EQUIPMENT WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:POLYMERIZAT ION MAY TAKE PLACE AT ELEVATED

TEMPERATURES. MAY RELEASE TOXIC AND IRRITATING FUMES.

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

Spill Release Procedures:WEAR PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. FOR SMALL SPILLS TAKE UP WITH SAND OR OTHER INERT ABSORBENT MATERIAL & PLACE IN A CONTAINER FOR LATER DISPOSAL. NOTE: IN BULK QUANTIT IES, PRODUCT ABSORBED ON INERT MATERIAL MAY POLYMERIZE GENERATING SIGNIFICANT HEAT & PRESSURE. VENT DISPOSAL

CONTAINER TO PREVENT BUILDUP OF PRESSURE. CAN CAREFULLY SOLIDIFY WITH ANAEROBIC SURFACE

Neutralizing Agent: CAN CAREFULLY SOLIDIFY WITH ANAEROBIC SURFACE CONDITIONER AND DISPOSE OF AS SOLID WASTE.

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

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

REQUIREMENTS: GENERAL.

Other Precautions:EMPTY CONTAINER WARNINGS- EMPTY CONTAINERS MAY
CONTAIN PRODUCT RESIDUE; FOLLOW MSDS AND LABEL WARNINGS EVEN AFTER
THEY HAVE BEEN EMPTIED.

====== 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:WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT

## WITH THIS SUBSTANCE.

Eye Protection:SAFETY GLASSES, GOGGLES OR FACE SHIELD TO PROTECT AGAINST SPLASHING.

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

Work Hygienic Practices:REMOVE CLOTHING AND LAUNDER BEFORE REUSE IF CONTAMINATED WITH PRODUCT. WASH HANDS WITH SOAP AND WATER IF CONTACT WITH PRODUCT OCCURS OR BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

Supplemental Safety and Health PRODUCT NUMBER: 78-4309.

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

HCC:V5

Boiling Pt:B.P. Text:POLYMERIZES BEFORE BP

Vapor Pres:0.01 (77F) Vapor Density:1.01 Spec Gravity:1.070 Viscosity:7000 CPS

Solubility in Water: INSOLUBLE

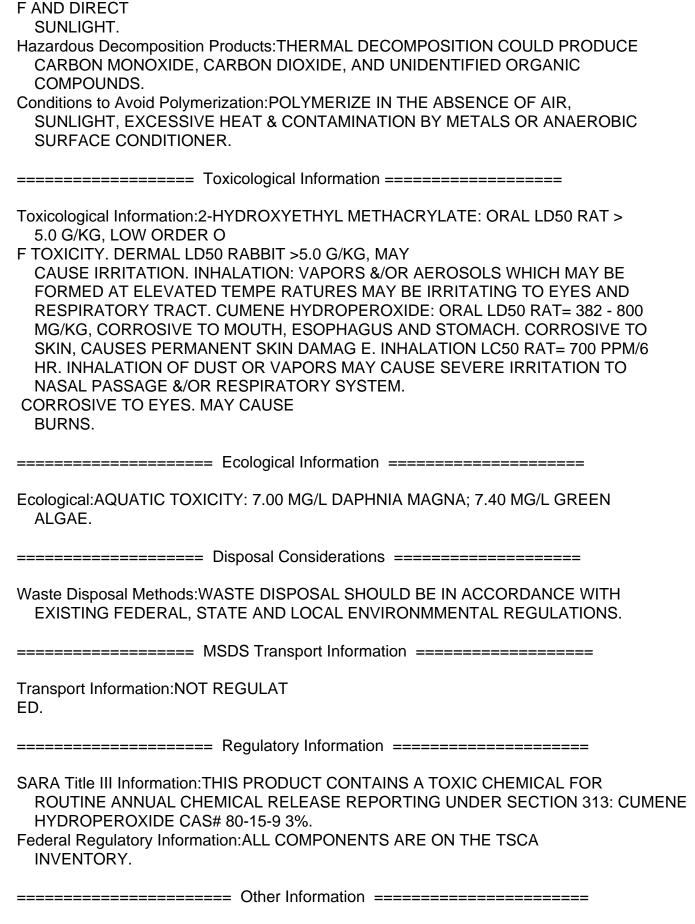
Appearance and Odor:RED LIQUID; MILD, PLEASANT ODOR.

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

Stability Indicator/Materials to Avoid:YES

METALS AND THEIR SALTS, PERMA-LOK ANAEROBIC SURFACE CONDITIONERS.

Stability Condition to Avoid:TEMPERATURES ABOVE 100



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