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NATIONAL STARCH AND CHEMICAL CORP. -- BONDMASTER M777A (84-7777) PT A --8040-00-180-6255

Product ID:BONDMASTER M777A (84-7777) PT A MSDS Date:11/05/1985 FSC:8040 NIIN:00-180-6255 MSDS Number: BDGCC === Responsible Party === Company Name: NATIONAL STARCH AND CHEMICAL CORP. Address:10 FINDERNE AVE Box:6500 City:BRIDGEWATER State:NJ ZIP:08807 Country:US Info Phone Num:201-685-5000 Emergency Phone Num:201-685-5000 CAGE:01666 === Contractor Identification === Company Name:NATIONAL STARCH AND CHEMICAL CORP BONDMASTER DIV Address:225 BELLEVILLE AVE Box:City:BLOOMFIELD State:NJ ZIP:07003-3584 Country:US CAGE:01666 Ingred Name: PROPANE, 1-BUTOXY-2,3-EPOXY-; (N-BUTYL GLYCIDYL ETHER (BGE)) CAS:2426-08-6 RTECS #:TX4200000 Fraction by Wt: 100% **OSHA PEL:N/K** ACGIH TLV:N/K Ingred Name:SUPDAT:

SOLID STREAM MAY BE INEFTIVE. COOL CNTNRS W/FLOODING AMTS WATER. APPLY FROM AS FAR A DIST AS POSS. AVOID (ING 3) RTECS #:99999992Z

Ingred Name:ING 2: BRTHG VAPS. KEEP UPWIND. RTECS #:99999992Z

Ingred Name:FIRST AID PROC: GET MED ATTN. INGEST: IF CONSCIOUS, GIVE LG QTYS WATER. AFTER WATER SWALLOWED, INDUCE VOMIT. DO (ING 5) RTECS #:9999999ZZ

Ingred Name:ING 4: NOT MAKE UNCON PERSON VOMIT. GET MED ATTN. NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY. RTECS #:9999999 ZZ

Ingred Name:SPILL PROC: FLARES IN HAZ AREA! KEEP UNNEC PEOPLE AWAY; ISOLATE HAZ AREA & DENY ENTRY. RTECS #:9999999ZZ

Ingred Name:RESP PROT: 3500 PPM: POWERED AIR-PURIFYING RESP W/ORG VAP CARTRIDGE & HIGH-EFFICIENCY PARTICULATE FILTER W/FULL (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:FACEPIECE. TYPE 'C' SUPPLIED-AIR RESP W/FULL FACEPIECE OPERATED IN PRESS-DEMAND/OTHER POS PRESS/CONTINUOUS (ING 9)

RTECS #:9999999ZZ

Ingred Name: ING 8: FLOW MODE. ESCAPE: GAS MASK W/ORG VAP CA NISTER

(CHIN-STYLE/FRONT-OR BACK-MOUNTED CANISTER). SCBA. RTECS #:9999999ZZ

LD50 LC50 Mixture:LD50: (ORAL, RAT) 2050 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHAL: 3500 PPM IMMED DANGEROUS TO LIFE/HLTH. LOW CONC MAY PRDCE COUGH & DYSP. HIGH CONC MAY CAUSE PNEUM, DULLNESS, DIZZ, CNS DEPRESS, SPEECH DF CLTY & PULM EDEMA.

SKIN: MAY BE ABSORBED THRU INT ACT SKIN CAUSING DULLNESS, DIZZ, CNS DEPRESS, SPEECH DFCLTY, PULM EDEMA. THERE MAY BE REDNESS OF SKIN (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ: & PAIN. SENSIT DERM MAY OCCUR IN PERSONS PREVIOUSLY EXPOS. EYES: MAY CAUSE IRRIT, REDNESS, PAIN & LACRIMATION. INGEST: MAY BE SORE THROAT, ABDOM PAIN, DULLNESS, DIZZ, CNS DEPRESS, PULM EDEMA . CHRONIC: INHAL: RESP IRRIT. SKIN:

MAYCAUSE SENSIT DERM. EYES: RPTD/PRLNG EXPOS MAY CAUSE CONJUNCTIVITIS.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN, LIVER, KIDNEY, OR CHRONIC RESPIRATORY DISEASE MAY BE AT AN INCREASED RISK FROM EXPOSURE.

First Aid:INHAL: REMOVE FROM EXPOSURE TO FRESH AIR IMMED. MAINTAIN AIRWAY & RESPIRATION. GIVE O*2 IF AVAIL. KEEP PERSON WARM & AT REST. GET MED ATTN. SKIN: IMMED WASH W/SOAP/MILD DETERGENT & LG

AMTS WATER (APPR OX 15-20 MIN) UNTIL NO EVID OF CHEM REMAINS. IF CHEM SOAKED CLTHG, REMOVE IMMED & WASH AFFECTED AREAS. EYES: WASH IMMED W/LG AMTS WATER (@ LEAST 15 MIN) OCCAS LIFTING UPPER & LOWER LIDS. (ING 4)

Flash Point Method:CC
Flash Point:147F,64C
Extinguishing Media:CO*2,FOAM, DRY CHEMICAL.
Fire Fighting Procedures:USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP . MOVE CNTNR FROM FIRE
AREA IF POSS. COOL FIRE-EXPOS CNTNRS W/WATER
FROM SIDE UNTIL WELL AFTER FIRE (SUPDAT)
Unusual Fire/Explosion Hazard:SLIGHT FIRE HAZ WHEN EXPOS TO HEAT/FLAME.
VAPS ARE HVR/AIR & MAY TRAVEL CONSIDERABLE DIST TO SOURCE OF IGNIT
& FLASH BACK. VAP-AIR MIX EXPLO ABOVE FLASH POINT.

Spill Release Procedures: SHUT OFF IGNIT SOURCES. STOP LEAK IF YOU CAN DO W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. FOR SM SPILLS, TAKE

UP W/SAND/OTHER ABSORB MATL & PLACE INTO CNTNRS FOR LATER DISP. FOR LG SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER DISP. NO SMKNG, (ING 6)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.
Other Precautions:MAY BE IGNITED BY HEAT, SPARKS OR FLAMES. CONTAINER MAY EXPLODE IN HEAT OF FIRE. VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS. RUN
-OFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

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

Respiratory Protection: RESPS MUST BE NIOSH/MSHA APPRVD. 2500 PPM: CHEM CARTRIDGE RESP W/ORG VAP CARTRIDGE. GAS MASK W/ORG VAP CANISTER (CHIN-STYLE/FRONT-OR BACK-MOUNTED CANISTER). SUPPLIED-AIR RESP W/FULL FACEPIECE, HELMET/ HOOD. SCBA W/FULL FACEPIECE. (ING 7) Ventilation:SUFFICIENT TO KEEP VAPORS BELOW TLV. Protective Gloves: APPROPRIATE PROTECTIVE GLOVES. Eve Protection: GOGGLES & FACE SHIELD. Other Protective Equipment: EYE WASH FOUNTAIN. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health FIRE FIGHT PROC: IS OUT. FOR MASSIVE FIRE IN STOR AREA, USE UNMANNED HOSE HOLDER/MONITOR NOZZ. OR W/DRAW FROM AREA & LET FIRE BURN. W/DRAW IMMED IN CASE OF RISING SOUND FROM VENTING SFTY DEVICE/ANY DI SCOLORATION OF STOR TANK DUE TO FIRE. EXTING ONLY IF FLOW CAN BE STOPPED: USE FLOODING AMTS WATER AS FOG, (ING 2)

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HCC:N1 Boiling Pt:B.P. Text:327F,164C Vapor Pres:3 Vapor Density:4.5 Spec Gravity:0.9 Solubility in Water:2% Appearance and Odor:PALE YELLOW TO COLORLESS LIQUID. SLIGHTLY IRRITATING ODOR.

Stability Indicator/Materials to Avoid:YES MAY REACT VIOLENTLY IN THE PRESENCE OF CAUSTICS & STRONG OXIDIZERS. Stability Condition to Avoid:MODIFIER, STABILIZER. REACTS

VIOLENTLY W/STRONG OXIDIZERS. MAY FORM EXPLOSIVE PEROXIDES IN CONTACT W/AIR & LIGHT. Hazardous Decomposition Products:TOXIC &/OR HAZARDOUS GASES.

Conditions to Avoid Polymerization:PREMATURE REACTION WITH CURING AGENTS.

Waste Disposal Methods: DISPOSE IAW FEDERAL, STATE & LOCAL CODES.

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