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NATIONAL STARCH AND CHEMICAL CORPORATION -- PERMABOND (R) 102 82-9808 8040-00-142-9193 Product ID:PERMABOND (R) 102 82-9808 MSDS Date:04/16/1990 FSC:8040 NIIN:00-142-9193 MSDS Number: BSHRQ === Responsible Party === Company Name: NATIONAL STARCH AND CHEMICAL CORPORATION Address:10 FINDERNE AVENUE Box:6500 City:BRIDGEWATER State:NJ ZIP:08807 Country:US Info Pho ne 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

Ingred Name:ETHYL CYANOACRYLATE CAS:7085-85-0 Fraction by Wt: > 1% Other REC Limits:NONE SPECIFIED ACGIH TLV:2 PPM; STEL 4 PPM

Ingred Name:VOC: NIL RTECS #:9999999VO Other REC Limits:NONE SPECIFIED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO Health Hazards Acute and Chronic: ACUTE: EYE: ON CONTACT, WILL BOND EYELIDS TOGETHER. VAPORS ARE LACHRYMATORY. SKIN CONTACT: ON CONTACT, IMMEDIATE BONDING OF SKIN WILL OCCUR. FREQUENT OR PROLONGED CONTACT IRRITATE SKIN. I NHALATION: VA PORS IRRITATING TO RESPIRATORY SYSTEM &NASAL PASSAGES. INGESTION: ON CONTACT, IMMEDIATE BONDING OF MOUTH COULD OCCUR. First Aid: EYE: FLUSH WITH LARGE AMOUNTS OF WATER WHILE HOLDING EYELIDS OPEN. GET MED AID IMMED. CURED ADHESIVE WILL NOT BOND WELL TO SURFACE OF EYE, BUT CORNEAL DAMAGE FROM ABRASION MAY RESULT. SKIN: NO ATTEMPT SHOULD BE MADE TO REMOVE MATERIAL FROMSKIN OR TO REMOVE CONTAM INATED CLOTHING, AS THE BONDED SKIN CAN EASILY BE TORN. WASH W/LARGE VOLUMES OF SOAP/WATER WHILE FLEXING BONDED SKIN PARTS. THIS Flash Point Method:SCC Flash Point:167F,75C Extinguishing Media:CO2, DRY CHEMICAL, FOAM Fire Fighting Procedures: FIRE FIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. Unusual Fire/Explosion Hazard: CLOTHS USED TO WIPE UP SPILLS CAUSE RAPID POLYMERIZATION THAT COULD GENERATE SUFFICIENT HEAT TO IGNITE THE CLOTH. COMBUSTION MAY RELEASE NOXIOUS OR TOXIC VAPORS

Spill Release Procedures:SMALL SPILLS: WIPE UP W/CLOTH. IMMEDIATELY SOAK CLOTH W/WATER TO POLYMERIZE THE ADHESIVE. CAUTION! CLOTH CONTAINING ADHESIVE MAY UNDERGO AUTO IGNITION IF NOT SOAKED W/WATER. LARGE SPILLS: FLOOD AREA W /WATER. WHEN CURED, REMOVE FILM

W/SCRAPER.

Handling and Storage Precautions: STORAGE TEMPERATURE LESS THAN 80 F. STORE IN COOL, DRY AREA AWAY FROM HEAT, SPARKS OR FIRE. Other Precautions: DON'T WEAR CONTACT LENSES WHEN WORKING WITH THIS MATERIAL. Respiratory Protection: AVOID PROLONGED OR REPEATED BREATHING OF VAPOR OR MISTS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS, USE A NIOSH APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE & WHEN CLEANING LARGE SPIL LS. Ventilation:LOCAL Protective Gloves: POLETHYLENE, NOT RUBBER OR CLOTH Eye Protection: SAFETY GLASSES, GOGGLES OR FACE SHIELD Other Protective Equipment: NO SPECIAL CLOTHING REQUIRED FOR LOW VOLUME ACTIVITY. Work Hygienic Practices: REMOVE & WASH CONTAMINATED CLOTHING CAREFULLY **BEFORE REUSE.** Supplemental Safety and Health PROCEDURE WILL SLOWLY RELEASE BONDED AREAS. DON'T MECHANICALLY REMOVE CURED ADHESIVE OR ATTEMPT TO PULL SKIN APART. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHIN G HAS STOPPED, GIVE CPR. GET MEDICAL ATTENTION. INGESTION: IMMEDIATE BONDING OF MOUTH WILL OCCUR. GET MEDICAL AID. HCC:V4

Boiling Pt:B.P. Text:140F,60C Vapor Pres:0.3 @ 68F Vapor Density:>1 AIR = 1 Spec Gravity:1.050 WATER = 1 Viscosity:100 CPS Solubility in Water:INSOLUBLE Appearan ce and Odor:TRANSPARENT LIQUID; PUNGENT ODOR Percent Volatiles by Volume:NIL

Stability Indicator/Materials to Avoid:YES
WATER, ALKALINE MATERIALS, PEROXIDES
Stability Condition to Avoid:CONTAMINATION OF ADHESIVE WITH ALKALINE MATERIALS, PEROXIDES OR WATER CAN RESULT IN RAPID POLYMERIZATION. IN LARGE
Hazardous Decomposition Products:DECOMPOSES UPON HEATING TO RELEASE TOXIC FUMES OF NITROGEN OXIDES, CARBON MONOXIDE A
ND CARBON DIOXIDE.
Conditions to Avoid Polymerization:QUANTITIES, THIS COULD LEAD TO AN UNCONTROLLABLE RISE IN TEMPERATURE & A BUILDUP OF PRESSURE IN CLOSED CONTAINERS.

Waste Disposal Methods: WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING LOCAL, STATE & FEDERAL ENVIRONMENTAL REGULATIONS.

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