Product ID:RP 6401 RESIN MSDS Date:12/07/1989 FSC:9330 NIIN:01-225-0175 Kit Part:Y MSDS Number: BNWVT === Responsible Party === Company Name: CIBA-GEIGY CORP, REN PLASTICS DIV. Address:4917 DAWN AVE **City:EAST LANSING** State:MI ZIP:48823-5605 Country:US Info Phone Num:517-351-5900 Emergency Phone Num:800-888-8372 Preparer's Name: PRODUCT SAFETY DIRECTOR CAGE: 04482 === Contractor Identification === Company Name: CIBA SPECIALTY CHEMICALS CORPORATION Address:4917 DAWN AVE Box:City:EAST LANSING State:MI ZIP:48823-5691 Country:US Phone:517-351-5900 CAGE:02684 Company Name: CIBA-GEIGY CORP, CIBA PHARMACEUTICALS DIV. Address:556 MORRIS AVENUE Box:City:SUMMIT State:NJ ZIP:07901-1303 Country:US Phone:201-277-5405 CAGE:04482

Ingred Name:HYDROGENATED TERPHENYLS CAS:61788-32-7 RTECS #:WZ653500 0 OSHA PEL:0.5 PPM ACGIH TLV:0.5 PPM; 9192

Ingred Name:METHYLENE BISPHENYL ISOCYANATE (MDI) (SARA III) CAS:101-68-8 RTECS #:NQ9350000 OSHA PEL:C, 0.02 PPM ACGIH TLV:0.005 PPM; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:HIGHER OLIGOMERS OF MDI (POLYMETHYLENE POLYPHENYLENE POLYISOCYANATE) CAS:9016-87-9 RTECS #:TR0350000 Other REC Limits:NONE RECOMMENDED

Ingred Name:1,1'-METHYLENE BIS(ISOCYANATOBENZENE) CAS:25686-28-6 Other REC Limits:NONE RECOMMENDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: RESPIRATORY & DERMAL IRRITANT; POSSIBLE CNS' EFFECTS; SENSITIZATION CAUSING ALLERGIC SKIN & RESPIRATORY REACTIONS. CHRONIC: NON-CITED. Effects of Overexposure:CONTACT W/ LIQUID CAUSES EYE & SKIN IRRITATION. IF INHALED CAUSES BREATHLESSNESS, CHEST DISCOMFORT & REDUCED PULMONARY FUNCTION. MAY CAU SE ALLERGIC SKIN & RESPIRATORY REACTIONS IN SOME INDIVIDUALS, LE ADING TO ASTHMA TYPE SPASMS OF THE BRONCHIAL TUBES & DIFFICULTY IN BREATHING. Medical Cond Aggravated by Exposure:PERSONS W/ ASTHMATIC-TYPE CONDITIONS, CHRONIC BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES, EYE CONDITIONS OR RECURRENT SKIN ECZEMA OR SENSITIZATION SHOULD BE EXCLUDED FROM WORKING W/ ISOCYANATES.

First Aid: EYES: IMMEDIATELY FLU

SH W/WATER FOR AT LEAST 15 MIN.GET MED ATTN; SKIN:WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING & LAUNDER BEFORE REUSE; INGEST:IF CONSCIOUS,GIVE PLENTY OF WATER TO DRINK. DO N OT INDUCE VOMITING. GET MED ATTN; INHAL:REMOVE TO FRESH AIR. GIVE OXYGEN AND/OR ARTIFICIAL RESPIRATION, IF NEEDED. GET MED ATTN. REFERRAL TO PHYSICIAN IS RECOMMENDED IF THERE IS QUESTION ABOUT INJURY

Flash Point Method:OC Fla sh Point:>345F,>174C Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER-FOG OR CHEMICAL FOAM. Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARATUS Unusual Fire/Explosion Hazard:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. AVOID WATRE CONTAMINATION IN CLOSED CONTAINERS OR CONFINED SPACES. CARBON DIOXIDE EVOLVED.

Spill Release Procedures: ABSORB W/ABSORBENT MATERIAL & PLACE IN OPEN TOP CONTA

INER. UNDER GOOD VENTILATION, DECONTAMINATE ABSORBANT & SPILL AREA W/ A MIXTURE OF 90% WATER, 8% AMMONIA, & 2% DETERGENT(EXOTHERMIC REACTION). LEAVE VENTILATED 24 HRS BEFORE DISPOSAL. AVOID CONTACT.

Neutralizing Agent:FOR ABSORBANT & SPILL AREA: 90% WATER, 8% AMMONIA & 2% DETERGENT(EXOTHERMIC RXN)

Handling and Storage Precautions:WARNING! HARMFUL IF INHALED.CAUSES SKIN & EYE IRRITATION. CAUSES ALLERGIC SKIN

& RESPIRATORY REACTION.

AVOID CONTACT W/ EYES, SKIN & CLOTHING.

Other Precautions: AVOID BREATHING VAPOR OR MIST. AVOID RPOLONGED OR REPEATED CONTACT W/SKIN. KEEP CONTAINER CLOSED.USE W/ ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. NUISANCE DUST MAY BE GENERATED WHEN SANDIN G/SAWING CURED MATERIAL.

Respiratory Protection:ORGANIC VAPOR RESPIRATOR IF TLV IS NOT EXCEEDED. FOR EXPOSURES IN EXCESS OF TH E TLV, AN AIR SUPPLIED RESPIRATOR WOULD BE REQUIRED.
Ventilation:GENERAL MECHANICAL & LOCAL EXHAUST I/A/W ACGIH RECOMMENDATIONS.
Protective Gloves:IMPERVIOUS SYNTHETIC
Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES.
Other Protective Equipment:SUPPLIER DID NOT ADDRESS THIS FIELD.
Work Hygienic Practices:SUPPLIER DID NOT ADDRESS THIS FIELD. SEE HANDLING/STORAGE PRECAUTIONS.
Supplemental Safety and Health MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN.

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

HCC:T4 Vapor Pres:0.11 MM Vapor Density:>1.0 Spec Gravity:1.17-1.21 Solubility in Water:REACTS Appearance and Odor:CLEAR AMBER LIQUID. Percent Volatiles by Volume:NEGLIG

Stability Indicator/Materials to Avoid:YES

- WATER/ALCOHOLS/STRONG OXIDIZING AGENTS/STRONG BASES/ METAL-ORGANIC COMPOUNDS.
- Stability Condition to Avoid:AVOID PROLONGED HEATING OVER 160F/71.1C OR STORING B

ELOW 75F/23.9C. AVOID WATER CONTAMINATION.

 Hazardous Decomposition Products:COMBUSTION MAY FORM TOXICS. CARBON MONOXIDE,CARBON DIOXIDE,BENZENE, TOLUENE,OXIDES OF NITROGEN,HYDROGEN CYANIDE.
 Conditions to Avoid Polymerization:CONTAMINATION W/ MOISTURE & OTHER

PRODUCTS THAT REACT W/ ISOCYANATES.

Waste Disposal Methods:CONSULT QUALIFIED LOCAL OR CORPORATE PERSONNEL FOR METHOD THAT WILL COMPLY WITH LOCAL, STATE AND FEDERAL HEALTH ENVIRONMENTAL REGULATIONS.

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