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

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

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

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

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Identification =====

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.

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First Aid Measures =====

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 NOT 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

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===== Fire Fighting Measures =====

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.

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

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)

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

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.

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

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 and Reactivity Data =====

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.

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

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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