

CIBA-GEIGY CORPORATION, FURANE PRODUCTS DIVISION -- URALANE 5733 A;FPC0054 --
5970-01-086-3433

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

Product ID:URALANE 5733 A;FPC0054

MSDS Date:11/18/1991

FSC:5970

NIIN:01-086-3433

Kit Part:Y

MSDS Number: BWSVK

=== Responsible Party ===

Company Name:CIBA-GEIGY CORPORATION, FURANE PRODUCTS DIVISION

Address:5121 SAN FERNANDO RD WEST

City:LOS ANGELES

State:CA

ZIP:90039-

1011

Country:US

Info Phone Num:818-247-6210

Emergency Phone Num:818-247-6210 800-888-8372

Preparer's Name:RAJESH S. PATEL

CAGE:99384

=== Contractor Identification ===

Company Name:CIBA SPECIALTY CHEMICALS CORP, N. A. / PERFORMANCE
POLYMERS

Address:5121 SAN FERNANDO RD WEST

Box:City:LOS ANGELES

State:CA

ZIP:90039-1011

Country:US

Phone:818-247-6210/800-873-1138

CAGE:99384

Company Name:RESIN FORMULATORS CO

Address:8500 STELLER DR

Box:City:CALVER CITY

State:CA

ZIP:90232

Country:US

Phone:213-870-

9561
CAGE:03355

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Composition/Information on Ingredients
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Ingred Name: BENZENE, 1,1'-METHYLENEBIS(ISOCYANATO-
CAS:26447-40-5
Other REC Limits: NONE RECOMMENDED

Ingred Name: HOMOPOLYMER OF DIPHENYLMETHANE DIISOCYANATE
CAS:39310-05-9
Other REC Limits: NONE RECOMMENDED

Ingred Name: TRIETHYL PHOSPHATE
CAS:78-40-0
RTECS #: TC7900000
Other REC Limits: NONE RECOMMENDED

Ingred Name: METHYLENE BISPHENYL ISOCYANATE (MDI) (SARA III)
CAS:101-68-8
RTECS #: NQ9350000
Fraction by Wt: 75
%
Other REC Limits: NONE RECOMMENDED
OSHA PEL: C, 0.02 PPM
ACGIH TLV: 0.005 PPM; 9394
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB

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Hazards Identification
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LD50 LC50 Mixture: ORAL LD50 (RAT) IS 2200MG/KG INGRED #1
Routes of Entry: Inhalation: YES Skin: YES Ingestion: NO
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO
Health Hazards Acute and Chronic: **POISON** EYES: MAY CAUSE SEVERE
IRRITATION, POSSIBLE EYE DAMAGE. SKIN: MAY CAUSE SEVERE
IRRITATION, SENSITIZ
ATION. INGEST: HARMFUL IF SWALLOWED. INHAL: MAY
CAUSE RESPIRATORY IRRITATION, BRONCHITIS, RESPIRATORY
SENSITIZATION (ASTHMA), FLUID ACCUMULATION IN THE LUNGS. CHRONIC: SKIN
AND RESPIRATORY SENSITIZATION.
Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1%
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA.
Effects of Overexposure: INHAL: TIGHT CHEST, SHORTNESS OF
BREATH, COUGHING, HEADACHE. SYMPTOMS OF SENSITIZATION MAY BE DELAYED.
Medical Cond Aggravated by Exposure: PER

SONS WITH PRE-EXISTING SKIN(EG. ECZEMA),EYE,RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures =====

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.GET PROMPT MEDICAL ATTENTION.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.I NGEST:DO NOT INDUCE VOMITING.GET PROMPTQUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE 2 GL ASSES OF WATER.

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

Flash Point Method:CC
Flash Point:351F,177C
Extinguishing Media:WATER SPRAY,DRY CHEMICAL,CARBON DIOXIDE,FOAM.KEEP WATER OUT OF CONTAINERS.
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:**REACTS WITH WATER TO FORM CARBON DIOXIDE** FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

===== Accidental Release Measur es =====

Spill Release Procedures:USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.VENTILATE AREA.DIKE AHEAD OF SPILL.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.AVOID CONTAMINATING WATERWAYS.
Neutralizing Agent:WATER(90%)+AMMONIUM HYDROXIDE(8%)+DETERGENT(2%)

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

Handling and Storage Precautions:STORE BETWEEN 70-160F,DRY,WELL-VENTILATED PLACE.KEEP C ONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM HEAT,SPARKS,FLAMES AND INCOMPATIBLE MATERIALS.
Other Precautions:USE INERT GAS BLANKETING FOR BULK STORAGE.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS,DEPENDING ON THE AIRBORN CONCENTRA TION.
Ventilation:USE LOCAL EXHAUST

AT THE POINT OF USE.

Protective Gloves:IMPERVIOUS

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety and Health

KEY1;T4.HMIS SUGGESTS TO CAREFULLY CHECK CLOSED CONTAINERS FOR PRESSURE BUILDUP,ESPECIALLY AFTER LONG STORAGE OR POSSIBLE MOISTURE CONTAMINATION.

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

HCC:T4

Boiling Pt:B.P. Text:392F,200C

Vapor Pres:0.0003

Vapor Density:8.6

Spec Gravity:1.24

Viscosity:50 CPS

Evaporation Rate & Reference: