

ELASTOPOR(R) P1001U ISOCYANATE

Product ID: NPU 586305  
Common Chemical Name: POLYMEHTYLENE POLYPHENYLISOCYANATE  
Synonyms: POLYMERIC MDI, PMDI  
Molecular Formula: MIXTURE  
Chemical Family: Aromatic Isocyanates  
Molecular Wt.: NOT ESTABLISHED

SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount	
4,4' DIPHENYLMETHANE DIISOCYANATE	101-68-8	42.0	%
ACGIH TLV	TWA 0.005 PPM		
OSHA PEL	CEIL 0.02 PPM		
POLYMERIC MDI	9016-87-9	< 60.0	%
PEL/TLV NOT ESTABLISHED			
MDI MIXED ISOMERS	26447-40-5	< 5.0	%
PEL/TLV NOT ESTABLISHED			

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

Color: Dark Brown  
Form/Appearance: Liquid  
Odor: Aromatic

WARNING STATEMENT:

CAUTION:

CONTAINS DIPHENYLMETHANE DIISOCYANATE (CAS NO. 101-68-8).  
INHALATION OF MDI MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION,  
BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION.  
OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL  
SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS  
BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION  
WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES  
MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC

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## SECTION 3 - HAZARDS IDENTIFICATION (cont)

RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. RESULTS FROM A LIFETIME INHALATION STUDY IN RATS INDICATE THAT MDI AEROSOL WAS CARCINOGENIC AT 6 MG/M<sup>3</sup>, THE HIGHEST DOSE TESTED. THIS IS WELL ABOVE THE RECOMMENDED TLV OF 5 PPB (0.05 MG/M<sup>3</sup>). ONLY IRRITATION WAS NOTED AT THE LOWER CONCENTRATIONS OF 0.2 AND 1 MG/M<sup>3</sup>.

**Potential Health Effects****Primary Routes of Exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Acute Overexposure Effects:**

Eye contact with isocyanates may result in conjunctival irritation and mild corneal opacity. Skin contact may result in dermatitis, either irritative or allergic.

Inhalation of MDI vapors may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function. Airborne overexposure well above the PEL may result additionally in eye irritation, headache, chemical bronchitis, asthma-like findings or pulmonary edema. Isocyanates have also been reported to cause hypersensitivity pneumonitis, which is characterized by flu-like symptoms, the onset of which may be delayed. Gastrointestinal symptoms include nausea, vomiting and abdominal pain.

**Chronic Overexposure Effects:**

Results from a lifetime inhalation study in rats indicate that MDI aerosol was carcinogenic at 6 mg/m<sup>3</sup>, the highest dose tested. This is well above the recommended TLV of 5 ppb (0.05 mg/m<sup>3</sup>). Only irritation was noted at the lower concentration of 0.2 and 1 mg/m<sup>3</sup>. No birth defects or teratogenic effects were reported in a teratology study with rats exposed to 1, 4, and 12 mg/m<sup>3</sup> polymeric MDI for 6 hr/day on days 6-15 of gestation. Embryotoxicity and fetotoxicity was reported at the top dose in the presence of maternal toxicity. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the PEL/TLV. These symptoms, which include chest tightness, wheezing, cough, shortness of breath, or asthmatic attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanates has also been reported to cause lung damage, including a decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent. Prolonged contact can cause reddening, swelling, rash, scaling, or blistering. In those who have developed a skin sensitization, these symptoms can develop as a

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## SECTION 3 - HAZARDS IDENTIFICATION (cont)

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result of contact with very small amounts of liquid material, or even as a result of vapor-only exposure.

## First Aid Procedures - Aggravated Medical Conditions:

Individuals who are sensitized to isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperreactivity or asthma, must avoid all exposure to isocyanates.

## SECTION 4 - FIRST AID MEASURES

## First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

## First Aid Procedures - Eyes:

Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

## First Aid Procedures - Ingestion:

If swallowed, dilute with water. DO NOT INDUCE VOMITING. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

## First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

## First Aid Procedures - Notes to Physicians:

There is no specific antidote to counteract the effects of MDI. Care should be supportive and treatment should be based on the judgement of the physician in response to the reaction of the patient.

## First Aid Procedures - Aggravated Medical Conditions:

Individuals who are sensitized to isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperreactivity or asthma, must avoid all exposure to isocyanates.

## First Aid Procedures - Special Precautions:

None

## Other First Aid Procedures:

Medical supervision of all employees who handle or come into contact with MDI is recommended. Preemployment and periodic medical examinations with respiratory function tests (FEV<sub>1</sub>, FVC as a minimum are suggested). Persons with asthmatic conditions chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with MDI. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to MDI, further exposure is not permissible.

## SECTION 5 - FIRE FIGHTING MEASURES

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	Typical	Low/High	Deg.	Method
Flash Point:	> 400			F CLOSED CUP
Autoignition:	NOT AVAILABLE			
Extinguishing Media:	Use CO <sub>2</sub> or dry chemical extinguishing media.			

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## SECTION 5 - FIRE FIGHTING MEASURES (cont)

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**Fire Fighting Procedures:**

Personnel engaged in fighting isocyanate fires must be protected against nitrogen dioxide fumes as well as isocyanate vapors.

Firefighters must wear self-contained breathing apparatus and turnout gear.

**Unusual Hazards:**

Reacts violently with water, alcohols, amines, acids, and alkaline solutions.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**General:****General:**

Evacuate and ventilate spill area, dike spill to prevent entry into water system, wear full protective equipment including respiratory equipment during clean up. (See Section 7).

**MAJOR SPILL:**

Call BASF Corporation @ 1-800-832-4357. If transportation spill involved, call CHEMIREC @ 1-800-424-9300. If temporary control of isocyanate vapor is required a blanket of protein foam or other suitable foam (available at most fire departments), may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal. Proceed with clean up of rest of material as described in "Minor Spill".

**MINOR SPILL:**

Absorb the isocyanate with an acceptable absorbent per the Hazardous and Solid Waste Amendments of 1984 (HSWA). See 40 CFR sections 260, 264, and 265 for further information. Shovel into open top containers. Do not make pressure tight. Transport to a well ventilated area (outside) and treat with neutralizing solution consisting of a mixture of 90% water, 3-8% ammonia and 2-7% detergent. Add about 10 parts of neutralizer per part of isocyanate with mixing. Allow to stand for 48 hours letting evolved carbon dioxide to escape. Proceed with final "clean up" of spill area.

**CLEAN UP:**

Decontaminate spill area using neutralizing solution and letting stand over affected areas for at least 10 minutes.

## SECTION 7 - STORAGE AND HANDLING

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**General:**

Keep containers closed.

## SECTION 8 - PERSONAL PROTECTION

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**Clothing:**

Rubber gloves, coveralls, hard hat, boots and rubber apron to avoid skin contact. Contaminated equipment or clothing should be cleaned after each use or disposed of.

**Eyes:**

Wear fitted chemical goggles or face shield and safety glasses.

**Respiration:**

If the permissible exposure limit is exceeded, wear a NIOSH approved

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## SECTION 8 - PERSONAL PROTECTION (cont)

air-supplied respirator.  
 Ventilation:  
 Use local exhaust as necessary to maintain P.E.L.  
 Explosion Proofing:  
 None required.  
 Other Personal Protection Data:  
 Eyewash fountains and safety showers must be easily accessible.  
 Maintain work area below P.E.L.

## SECTION 9 - PHYSICAL PROPERTIES

Color:	Dark Brown				
Form/Appearance:	Liquid				
Odor:	Aromatic				
Odor Intensity:	Slight				
	Typical	Low/High		U.O.M.	
Specific Gravity:	NOT AVAILABLE				
Bulk Density:	10.22			LB/GAL	
Viscosity:	200			CENTIPOISE @	77 DEG.
pH:	NOT AVAILABLE				
	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:	625		F	760	MM HG
Freezing Pt:	NOT AVAILABLE				
Decomp. Temp:	NOT AVAILABLE				
Solubility in Water Description:	Water reactive				
Vapor Pressure:	0.00001 mm Hg @ 25 deg. C.				

## SECTION 10 - STABILITY AND REACTIVITY

Stability Data:  
 Stable  
 Incompatibility:  
 Water, alcohols and strong bases.  
 Conditions/Hazards to Avoid:  
 Reaction with moisture may form CO<sub>2</sub>.  
 Hazardous Decomposition/Polymerization:  
 Hazardous decomposition products: CO, NO<sub>x</sub>, HCN and MDI vapors.  
 Polymerization: May occur.  
 Corrosive Properties:  
 Not corrosive.  
 Oxidizer Properties:  
 Not an oxidizer  
 Other Reactivity Data:  
 Hazardous polymerization may occur. Avoid contamination with moisture and other products that react with isocyanates.  
 Contact with certain rubbers and plastics can cause embrittlement of the material with subsequent loss in strength.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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Toxicology Test Data:

Rat, 4 hr Inhalation LC50 - AEROSOL 490 MG/CU. M  
(Data for the MDI component)  
Rat, 4 hr Inhalation LC50 - VAPOR/11 MG/L  
(Data for the MDI component)  
Rat, Oral LD50 - > 10,000 MG/KG  
(Data for the MDI component)  
Rat, Inhalation Oncogenicity Study - @ °0.2, 1, 6 MG/CU. M  
(Data for the MDI component)

## SECTION 12 - ECOLOGICAL INFORMATION

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Environmental Toxicity Test Data:

Daphnia magna, 24 hr LC50 - > 500 MG/L  
(Data for the MDI component)  
Zebra Fish, Static 24 hr LC50 - > 500 MG/L  
(Data for the MDI component)

## SECTION 13 - DISPOSAL CONSIDERATION

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Waste Disposal:

Incinerate or landfill in a licensed facility. Do not discharge into waterways or sewer systems.

## Container Disposal:

Steel drums must be emptied (as defined by RCRA, Section 261.7 or state regulations that may be more stringent) and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer, or an approved landfill. Check with reconditioner to determine if they require them to be decontaminated. Drums destined for a scrap dealer or landfill must be decontaminated and punctured or crushed to prevent reuse.

## SECTION 14 - TRANSPORTATION INFORMATION

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DOT Proper Shipping Name:

SEE BELOW

## DOT Technical Name:

SEE BELOW

## DOT Primary Hazard Class:

SEE BELOW

## DOT Secondary Hazard Class:

SEE BELOW

## DOT Label Required:

SEE BELOW

## DOT Placard Required:

SEE BELOW

## DOT Poison Constituent:

SEE BELOW

## BASF Commodity Codes:

UN/NA Code: 2489 E/R Guide:

## Bill of Lading Description:

< 793 GALLONS NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION  
> 793 GALLONS RQ, OTHER REGULATED SUBSTANCES, LIQUID, NOS, (MDI), 9,  
NA3082, PG III

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## SECTION 15 - REGULATORY INFORMATION

## TSCA Inventory Status

Listed on Inventory: YES

SARA - 313 Listed Chemicals:

CAS:	28	AMOUNT:	100.0	%
NAME:	DIISOCYANATES			
CERCLA:	YES	Reportable Qty.:	(If YES)	
XXXXXX	XXXXXXXXXXXXXXXX	5000	LBS	

## SECTION 16 - OTHER INFORMATION

## Hazard Ratings:

BASF currently uses the National Paint & Coating Association (NPCA) rating system. The use of an asterisk (\*) in the HMIS rating indicates the potential for chronic health effects.

	Health:	Fire:	Reactivity:	Special:
HMIS	3	1	1	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

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END OF DATA SHEET

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## SECTION 3 - HAZARDS IDENTIFICATION (cont)

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UNCONSCIOUSNESS, HEADACHE, RESPIRATORY DEPRESSION AND DEATH FROM ASPHYXIATION. INCREASED SENSITIVITY OF THE HEART TO ADRENALIN; RAPID HEARTBEAT, IRREGULAR HEARTBEAT AND DEPRESSED CARDIAC FUNCTION MAY ALSO OCCUR. A TWO-YEAR INHALATION STUDY DEMONSTRATED LITTLE TOXICITY; HOWEVER, AT HIGHER DOSE LEVELS RATS DEVELOPED BENIGN TESTICULAR TUMORS LATE IN THE STUDY.

## Potential Health Effects

## Primary Routes of Exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

## Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation. Inhalation of high concentrations of HCFC 141b can cause drowsiness, unconsciousness, headache, respiratory depression and death due to asphyxiation. Increased sensitivity of the heart to adrenalin; rapid heartbeat, irregular heartbeat and depressed cardiac function may also occur. Inhalation may result in respiratory irritation. Ingestion may result in gastric disturbances.

## Chronic Overexposure Effects:

The flame retardant contains an organophosphate which may cause nervous system disorders such as tremors and convulsions. Female rats exposed to 20,000 ppm during pregnancy exhibited maternal toxicity with reduction in litter size and pup weight. There was no evidence of teratogenicity. A two-year inhalation study indicated that 141b demonstrated little toxicity; however, rats exposed to 5,000 ppm and 20,000 ppm developed benign testicular tumors late in the study.

## First Aid Procedures - Aggravated Medical Conditions:

Individuals with preexisting diseases of the central nervous system, respiratory or cardiovascular system may have increased susceptibility to excessive exposures.

## SECTION 4 - FIRST AID MEASURES

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First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

## First Aid Procedures - Eyes:

Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

## First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

## First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

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## SECTION 3 - HAZARDS IDENTIFICATION (cont)

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UNCONSCIOUSNESS, HEADACHE, RESPIRATORY DEPRESSION AND DEATH FROM ASPHYXIATION. INCREASED SENSITIVITY OF THE HEART TO ADRENALIN; RAPID HEARTBEAT, IRREGULAR HEARTBEAT AND DEPRESSED CARDIAC FUNCTION MAY ALSO OCCUR. A TWO-YEAR INHALATION STUDY DEMONSTRATED LITTLE TOXICITY; HOWEVER, AT HIGHER DOSE LEVELS RATS DEVELOPED BENIGN TESTICULAR TUMORS LATE IN THE STUDY.

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## First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

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## SECTION 4 - FIRST AID MEASURES (cont)

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First Aid Procedures - Notes to Physicians:

The organophosphate contained in the flame retardant may inhibit cholinesterase; this inhibition may be treated with a combination of atropine and praladoxime.

## First Aid Procedures - Aggravated Medical Conditions:

Individuals with preexisting diseases of the central nervous system, respiratory or cardiovascular system may have increased susceptibility to excessive exposures.

## First Aid Procedures - Special Precautions:

None

## SECTION 5 - FIRE FIGHTING MEASURES

	Typical	Low/High	Deg.	Method
Flash Point:	NOT AVAILABLE			
Autoignition:	NOT AVAILABLE			

## Extinguishing Media:

Use CO2 or dry chemical extinguishing media.

## Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

## Unusual Hazards:

There are no known unusual fire or explosion hazards.

Blowing Agent masks end pt.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

---

General:

Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

## SECTION 7 - STORAGE AND HANDLING

---

General:

Store in a ventilated storage area between 70-80F. Avoid excessive temperatures, low or high. Avoid moisture.

## SECTION 8 - PERSONAL PROTECTION

---

Clothing:

Gloves, coveralls, apron, boots as necessary to prevent skin contact.

## Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

## Respiration:

Approved organic vapor mist respirator as necessary.

## Ventilation:

Use local exhaust to control vapors/mists.

## Explosion Proofing:

None required.

## Other Personal Protection Data:

Avoid contact with skin as required by good normal hygiene practices.

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## SECTION 9 - PHYSICAL PROPERTIES

Color:	Amber				
Form/Appearance:	Liquid				
Odor:	Amine / Fluorocarbon				
Odor Intensity:	Slight				
	Typical	Low/High		U.O.M.	
Specific Gravity:	NOT AVAILABLE				
Bulk Density:	9.364			LB/GAL	
Viscosity:	175			CENTIPOISE @	22.8 DEG.
pH:	NOT AVAILABLE				
	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:	> 32		C	760	MM HG
Freezing Pt:	NOT AVAILABLE				
Decomp. Temp:	NOT AVAILABLE				
Solubility in Water Description:	Slightly Soluble				
pH: Basic					

## SECTION 10 - STABILITY AND REACTIVITY

## Stability Data:

Stable

## Incompatibility:

Avoid moisture to protect product quality.

## Conditions/Hazards to Avoid:

Exposure to moisture and temperatures &gt; 80F.

## Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: HCl, HF (From HCFC 141B) CO and CO2.

## Corrosive Properties:

Not corrosive.

## Oxidizer Properties:

Not an oxidizer

## Other Reactivity Data:

None known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

No applicable data for this section.

## SECTION 12 - ECOLOGICAL INFORMATION

No applicable data for this section.

## SECTION 13 - DISPOSAL CONSIDERATION

## Waste Disposal:

Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

## Container Disposal:

Steel drums must be emptied (as defined by RCRA, Section 261.7 or state regulations that may be more stringent) and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an

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SECTION 13 - DISPOSAL CONSIDERATION (cont)

approved landfill. Drums destined for a scrap dealer or landfill must be punctured or crushed to prevent reuse.

SECTION 14 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

N/A

DOT Technical Name:

N/A

DOT Primary Hazard Class:

N/A

DOT Secondary Hazard Class:

N/A

DOT Label Required:

N/A

DOT Placard Required:

N/A

DOT Poison Constituent:

N/A

BASF Commodity Codes:

UN/NA Code:

E/R Guide:

Bill of Lading Description:

NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

SARA - 313 Listed Chemicals:

CAS: 1717-00-6 AMOUNT: 18.0 %

NAME: DICHLOROFLUOROETHANE (141b)

RCRA Haz. Waste No. : NA

CERCLA: NO Reportable Qty.: (If YES)

THIS PRODUCT MAY CONTAIN ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND/OR OTHER REPRODUCTIVE HARM.

SECTION 16 - OTHER INFORMATION

Hazard Ratings:

BASF currently uses the National Paint & Coating Association (NPCA) rating system. The use of an asterisk (\*) in the HMIS rating indicates the potential for chronic health effects.

Health: Fire: Reactivity: Special:  
 HMIS 2 1 1 NA

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## SECTION 16 - OTHER INFORMATION (cont)

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END OF DATA SHEET