



THE CONNECTION/PROTECTION SOURCE

MATERIAL SAFETY DATA SHEET

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Uraseal Product Code: Pedestal Sealing Foam Kit-Part A

Section I - Product Identification

URASEAL PRODUCT ID:
Pedestal Sealing Foam Kit-Part A;
URF110-Part A; URF220-Part A;
URF440-Part A; URF660-Part A
URF3965-Part A

CHEMICAL NAME & SYNONYMS:
Polymeric Diphenylmethane Diisocyanate
(MDI Mixture)

TRADE NAME & SYNONYMS:
RU6000

CHEMICAL FAMILY:
Aromatic Isocyanate

FORMULA:
Not applicable to mixtures

CAS Number: Mixture

HAZARD TYPE
C = Carcinogen
H = OSHA Hazardous
P = CA Prop 65 (Carc.)
S = PA Special Hazard
A = SARA Title III, Sec. 313
N = Not hazardous by any listed hazard type

Section II - Hazardous Ingredients

* Neither MDI nor polymeric MDI are listed by the NTP, IARC or are regulated by OSHA as carcinogens.

HAZARDOUS MATERIAL	% by Wt.	PEL MEASUREMENT	CAS NBR	HAZARD TYPE
4,4'-Diphenylmethane Diisocyanate	30-60	OSHA: 0.020 ppm Ceiling 0.200 mg/m ³ ACGIH: 0.005 ppm TWA 0.051 mg/m ³ TWA	101-68-8	H, A
Diphenylmethane Diisocyanate	10-30	OSHA: Not Established ACGIH: Not Established	26447-40-5	H
Higher Oligomers of MDI	5-10	OSHA: Not Established	9016-87-9	H
Polypropylene glycol, MDI	10-30	OSHA: Not Established	39420-98-9	H

Section III - PHYSICAL DATA

BOILING PT: at 5 mm Hg	406° F	SPECIFIC GRAVITY: at 77° Fahrenheit	1.24
VAPOR PRESSURE (mm Hg): mm Hg at 77° Fahrenheit	<0.00001	PCT VOLATILE BY VOL:	Negligible
VAPOR DENSITY (AIR=1):	8.5 (MDI)	EVAPORATION RATE:	N.E.

SOLUBILITY IN WATER: Not soluble; reacts slowly with water to release CO₂

APPEARANCE AND ODOR: Dark brown liquid with slightly musty odor

N.A. = Not Applicable

N.E. = Not Established

well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis.

EYES: Liquid, vapors, or aerosols are irritating to the eyes and can cause tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible.

INGESTION: Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract. However, it is not considered a common occupational route of exposure.

EMERGENCY AND FIRST AID PROCEDURES:

If this product is used in accordance with the directions and recommendations on the package labeling and this Material Safety Data Sheet, chance of exposure to any chemical in this kit is virtually eliminated. First aid measures are provided only as a reference in the event of intentional misuse or unforeseeable event.

EYE CONTACT: Flush with water while occasionally lifting eyelids and obtain medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. **INHALATION:** Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed to several hours. Treatment is essentially symptomatic. **INGESTION:** Do not induce vomiting. Give victim 250 ml of milk or water to drink. **DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

Consult a physician. **NOTE TO PHYSICIAN:** Medical supervision of all employees who handle or come in contact with polymeric MDI is recommended. This should include preplacement and periodic medical examinations with respiratory function tests (FEV₁, EVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with MDI. Once a person is diagnosed as sensitized to MDI no further exposure can be permitted.

Consult a physician. **NOTE TO PHYSICIAN:** Medical supervision of all employees who handle or come in contact with polymeric MDI is recommended. This should include preplacement and periodic medical examinations with respiratory function tests (FEV₁, EVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with MDI. Once a person is diagnosed as sensitized to MDI no further exposure can be permitted.

Section VI - Reactivity Data

STABILITY: Stable

CONDITIONS TO AVOID: Contamination with water.

INCOMPATIBILITY (MATERIALS TO AVOID):

Water, amines, strong bases, alcohols. Will cause some corrosion to copper alloys and aluminum.

HAZARDOUS DECOMPOSITION PRODUCTS:

By high heat and fire: carbon monoxide, oxides of nitrogen, traces of HCN, MDI.

HAZARDOUS POLYMERIZATION:

May occur if in contact with moisture or other materials which react with isocyanates. May occur at temperatures over 400° Fahrenheit.

Section VII - Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED -

Cover the spill with sawdust, vermiculite, Fuller's earth or other absorbent material. Pour decontamination solution over spill area and allow to react for at least 10 minutes. Collect material in open containers and add further amounts of decontamination solution. Remove containers to safe place, cover loosely, and allow to stand for 24 to 48 hours. Wash down spill area with decontamination solution. Respiratory protection is recommended during spill clean up.

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DISPOSAL METHOD -

Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. **DO NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.**

Section VIII - Special Protection Information

RESPIRATORY PROTECTION (SPECIFY TYPE): Use an air-supplied respirator for levels equal to or above the PEL.

VENTILATION: Local exhaust should be used to maintain levels below the PEL.

PROTECTIVE GLOVES: Use permeation resistant gloves.

EYE PROTECTION: Use splash-proof chemical resistant goggles.

OTHER PROTECTIVE MEASURES: Educate and train employees in safe use of product and personal protective equipment. Follow all label instructions and cautions.

Section IX - Special Precautions

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

OTHER PRECAUTIONS: Avoid contact with skin and eyes. Keep away from food. Do not breathe vapors. Follow all container label instructions.

OTHER HYGIENIC AND GOOD WORK PRACTICES: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash it thoroughly before reuse. Shower after work using plenty of soap and water.

Section X - Federal Regulatory Information

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

TSCA STATUS : On TSCA Inventory

CERCLA REPORTABLE QUANTITY: 1 lb. for 4,4'-Diphenylmethane Diisocyanate, CAS# 101-68-8.

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES - None

SECTION 311/312 HAZARD CATEGORIES - Immediate Health Hazard, Delayed Health Hazard, Reactive Hazard.

SECTION 313 TOXIC CHEMICALS - 4,4'-Diphenylmethane Diisocyanate, CAS# 101-68-8; Upper Bound 55%.

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RCRA STATUS: MDI is not listed as a hazardous waste. To the best of our knowledge, MDI does not meet the criteria of a hazardous waste if discarded in its purchased form.

Section XI - Other Information

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM - HMIS:

HEALTH HAZARD	-	1
FLAMABILITY RATING	-	1
REACTIVITY RATING	-	0

The information and recommendations contained herein are based upon data believed to be correct. However, since much of the information has been received from sources outside our company, we cannot guarantee its accuracy or completeness. Health and safety precautions contained within this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this data in order to comply with all applicable laws and regulations. Additionally, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.



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URF3965 (Reacted Kit)

CHEMICAL NAME & SYNONYMS:
Cast Urethane Elastomer

TRADE NAME & SYNONYMS:
Reacted Polyurethane System

CHEMICAL FAMILY:
Polyurethane Solid

FORMULA:
Not Applicable to Articles

CAS NUMBER:
Not applicable

Section II - Composition / Information on Ingredients

This article is the result of a reacted polyurethane system. The material is a non-hazardous inert solid. Exposure to any of its components is not expected during typical, intended use.

Section III - Hazards Identification

Emergency Overview

Color: Green **Form:** Solid foam **Odor:** No appreciable odor
Toxic gases/fumes may be given off during burning or thermal decomposition.

NOTE: This article is the result of a reacted polyurethane system. The material is a non-hazardous inert solid. Exposure to any of its components is not expected during typical, intended use. If the item is in a liquid (not reacted) form please consult MSDS for Part A or Part B respectively.

Section IV - First Aid Measures

Eye Contact No adverse exposure expected under conditions of normal use.
Skin Contact No adverse exposure expected under conditions of normal use.
Inhalation No adverse exposure expected under conditions of normal use.
Ingestion No adverse exposure expected under conditions of normal use.

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Section V - Fire-Fighting Measures

Suitable Extinguishing Media	Water, Carbon Dioxide, Dry Chemical, Foam
Special Fire Fighting Procedures	Use SCBA and protective clothing.
Unusual Fire/Explosion Hazards	In a high temperature fire, cast urethane elastomers will burn. Carbon Monoxide, Carbon Dioxide, and Hydrogen Cyanide gasses, among others, will be generated.

Section VI - Accidental Release Measures

Spill and Leak Procedures	Pick up or sweep up. Dispose of as per Section XIII - Disposal Considerations.
Additional Spill Procedures	None Established

Section VII - Handling and Storage

Handling/Storage Precautions	None needed under conditions of normal use.
Other precautions	Follow all container label instructions. Material is not considered hazardous under normal handling operations, but reasonable care should be exercised.
Further Information on Storage Conditions	None Established

Section VIII - Exposure Controls / Personal Protection

Hand Protection	None needed under conditions of normal use.
Eye Protection	None needed under conditions of normal use.
Skin and body protection	None needed under conditions of normal use.
Respiratory protection	None needed under conditions of normal use.
Ventilation	None needed under conditions of normal use.
Other protective measures	Educate and train employees in safe use of product and personal protective equipment. Follow all label instructions and cautions.
Other hygienic and good work practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.

Section IX - Physical and Chemical Properties

Form:	Solid
Color:	Black
Odor:	No appreciable odor
pH:	Not Applicable
Freezing Point:	Not Applicable
Boiling Point/Range:	Not Applicable
Flash Point:	Solid - Not Applicable
Vapor Pressure:	Not Applicable
Specific Gravity:	Not Applicable
Solubility in Water:	Insoluble

Section X - Stability and Reactivity

Hazardous Reactions	Stable - None known	Materials to avoid	Solvents
Hazardous decomposition products	By Fire - Carbon Dioxide, Carbon Monoxide, Hydrogen Cyanide and other gasses.		

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Section XI - Toxicological Information

Toxicity Data for reacted polyurethane system

Toxicity Note	Not established	Skin Irritation	Not established
Acute Oral Toxicity	Not established	Repeated Dose Toxicity	Not established
Acute Inhalation Toxicity	Not established	Mutagenicity	Not established
Carcinogenicity	No known ingredients are OSHA listed as known carcinogens		
Developmental Toxicity/Teratogenicity	Not established		

Section XII - Ecological Information

Ecological Data for reacted polyurethane system

Biodegradation	Not established	Toxicity to Aquatic Plants	Not established
Bioaccumulation	Not established	Toxicity to Microorganisms	Not established
Acute and Prolonged Toxicity to Fish	Not established	Additional Ecotoxicological Remarks	Not established
Acute Toxicity to Aquatic Invertebrates	Not established		

Section XIII - Disposal Considerations

Waste Disposal Method

Pick up or sweep up. Dispose of in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.

Empty Container Precautions Not applicable

Section XIV - Transportation Information

<u>Land transport (DOT)</u>	Not regulated
<u>RSPA/DOT Regulated Components:</u>	None known
<u>Sea transport (IMDG)</u>	Non-Regulated
<u>Air transport (ICAO/IATA)</u>	Non-Regulated
Additional Transportation Information	None known

Section XV - Regulatory Information

None known

Section XVI - Other Information

<u>HMIS Rating</u>	Health	0	
	Flammability	0	0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
	Reactivity	0	

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