

Section 1: Identification

Product Identifier

Trade Name:	URF3965 Drain N' Seal Foam - Part A	Synonyms:	URF3965 - Part A
Chemical Name:	Polyurethane Isocyanate	Other:	RU6000
Recommended Use:	Open cell polyurethane foam component		
Restrictions on Use:	Use outdoors or in a well ventilated area		

Chemical Manufacturer Information

Name: Uraseal, Inc	Phone: (800)749-2788
Address: 1 Washington Street, Dover, NH 03820	Fax: (336)749-5594
Website: www.uraseal.com	Emergency Phone: (800) 582-0773
	Transportation Emergencies Only CHEMTREC:800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture

GHS Classification:	
<ul style="list-style-type: none"> • Skin irritation, Category 2 • Sensitization of respiratory airways, Category 1 • Carcinogenicity, Category 4 • Specific target organ toxicity (repeated exposure), Category 2 	<ul style="list-style-type: none"> • Acute toxicity, Inhalative, Category 4 • Eye irritation, Category 2 • Sensitization of the skin, Category 1 • Specific target organ toxicity (single exposure), Category 3

GHS Labeling:



Danger

Hazard Statements:	
<ul style="list-style-type: none"> • May cause an allergic skin reaction • Harmful if inhaled • May cause respiratory irritation • May cause damage to organs through prolonged or repeated exposure 	<ul style="list-style-type: none"> • Causes skin irritation • Causes serious eye irritation • May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements:	
<ul style="list-style-type: none"> • Do not breathe dust/fume/gas/mist/vapors/spray • Wear protective gloves/eye protection/face protection • IF ON SKIN: Wash with plenty of soap and water 	<ul style="list-style-type: none"> • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards: Persons with respiratory conditions should avoid handling this product.

Section 3: Composition

Hazardous Components

Type of product: substance

CAS#	Weight %	Name
101-68-8	50%	Diphenylmethane-4,4'-diisocyanate (MDI)
26447-40-5	30%	Diphenylmethane diisocyanate (MDI 2,2; 2,4)
9016-87-9	20%	P-MDI

Section 4: First Aid Measures

General:	Remove contaminated clothing
Inhalation:	Remove affected individual to fresh air and keep person calm. Assist in breathing if necessary. Immediate medical attention required.
Skin Contact:	Wash affected areas with soap and water. Seek medical attention for irritation.
Eye Contact:	Rinse for at least 15 minutes with water. Immediate medical attention required.
Ingestion:	Rinse mouth and drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Carbon dioxide, foam, dry powder, water spray
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the chemical:	Burning releases CO, CO ₂ , oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide.
Precautions for firefighters:	Firefighters should wear appropriate protective equipment and a self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet, and protective clothing should be worn.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (section 8).
Environmental precautions:	Do not discharge into drains/surface waters/groundwater
Methods/material for containment and cleanup:	Remove mechanically; cover remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO ₂ ?). Keep damp in a safe ventilated area for several days.

Section 7: Handling and Storage

Precautions for safe handling:	Provide sufficient air exchange and/or exhaust in work rooms. Occupational exposure limits should not be exceeded (refer to Section 8). Contact with skin and eyes and inhalation of vapors must be avoided. Keep away from foodstuffs, drinks, and tobacco. Wash hands before breaks and at end of work.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed and protect against moisture. Segregate from bases. Store from 32F – 110F.

Section 8: Exposure Controls and PPE

Exposure Limits

Component	Type	Value
P-MDI	OSHA PEL	CLV 0.02 ppm 0.2 mg/m ³
Diphenylmethane-4,4'-diisocyanate (MDI)	OSHA PEL	CLV 0.02 ppm 0.2 mg/m ³

Exposure Controls

Respiratory Protection:	Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.
Hand, eye, skin, body protection:	Chemical resistant protective gloves should be worn to prevent all skin contact. Wear eye/face protection. Wear suitable protective clothing

Section 9: Physical and Chemical Properties

Basic chemical and physical properties

Appearance:	liquid	Flammability	not applicable
Color	dark amber	Upper/lower flammability or explosive limits	
Odor	earthy, musty	Vapor pressure	0.00016 mmHg
Odor threshold	not established	Vapor density	not established
pH	not established	Relative density	1.24
Melting pt/freezing pt	3° C	Solubility(ies)	Reacts with water
Boiling pt/boiling range	> 300° C	Partition coefficient (n-octanol/water)	not established
Flash point	> 250° C	Auto-ignition temperature	not applicable
Evaporation rate	not established	Decomposition temperature	not established

Section 10: Stability and Reactivity

Chemical stability:	Stable at room temperature. Reaction with water (moisture) produces CO ₂ gas. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with, and heavier than, water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface
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	by liberating CO ₂ gas.
Possibility of hazardous reactions:	Exothermic reaction with amines and alcohols; reacts with water forming CO ₂ ; in closed containers, risk of bursting owing to increase of pressure
Conditions to avoid:	Avoid high temperatures
Incompatible materials:	water, alcohols, strong bases, amines, acids
Hazardous decomposition products:	carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, and HCN.

Section 11: Toxicological Information

Acute toxicity (inhalation):	LC50: 0.49mg/l , vapor, 4hr rat
Chronic toxicity:	2 years, inhalation; NOAEL: 0.2mg/m ³ , (rat, Male/Female, 6hrs/day 5 days/week)
Likely routes of exposure:	Skin, inhalation
Symptoms related to physical, chemical and toxicological characteristics:	Minor skin irritation; asthma-like symptoms
Delayed and immediate effects and chronic effects from short and long-term exposure:	Possible sensitization
	No carcinogenic substances as defined by IARC / NTP or OSHA

Section 12: Ecological Information

Ecotoxicity:	LC0: >1,000mg/l (Zebra fish 96 hrs) LC0: >3,000mg.l (Killifish 96hrs)
Persistence and degradability:	0%
Bioaccumulative potential:	Does not bioaccumulate
Mobility in soil:	

Section 13: Disposal

Waste disposal:	Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system. Do not burn empty drums or cut open with gas or an electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.
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Section 14: Transport

Land transport

USDOT	UN number: NA3082 Class: 9 Packing Group: III Additional Information: Reportable quantity 5000lbs
China	Not classified as dangerous good

Sea transport

IMDG	Not classified as dangerous good
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Air transport

IATA/ICAO	Not classified as dangerous good
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Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Refer to Section 15 for the RQ of this product.

Section 15: Regulatory

Relevant safety, health, and environmental regulations:	
Inventory Status:	TSCA listed
US Regulations:	Not regulated
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:	Methylene Bis Phenylisocyanate 101-68-8 =5000 lbs. (Same as Diphenylmethane diisocyanate (MDI)) (Same as Polymeric Diphenylmethane diisocyanate 9016-87-9)

Section 16: Other

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Section 1: Identification

Product Identifier

Trade Name:	URF3965 Drain N' Seal Foam - Part B	Synonyms: URF3965 - Part B
Chemical Name:	Polyurethane Polyol Blend	Other: EB50368
Recommended Use:	Open cell polyurethane foam component	
Restrictions on Use:	Use outdoors or in a well ventilated area	

Chemical Manufacturer Information

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			Transportation Emergencies Only
			CHEMTREC:800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture:

GHS Classification:	
<ul style="list-style-type: none"> • Skin irritation, Category 3 	<ul style="list-style-type: none"> • Eye irritation, Category 2

GHS Labeling:



Hazard Statements:	
<ul style="list-style-type: none"> • May cause skin irritation • May cause respiratory irritation 	<ul style="list-style-type: none"> • May cause eye irritation •

Precautionary Statements:	
<ul style="list-style-type: none"> • Do not breathe fume/gas/mist/vapors/spray • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. • IF ON SKIN: Wash with plenty of soap and water 	<ul style="list-style-type: none"> • Wear protective gloves/eye protection/face protection • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Other Hazards:

Section 3: Composition

Hazardous Components

Type of product: Mixture

CAS#	Weight %	Name
Proprietary	<1	Tertiary amine catalysts

Section 4: First Aid Measures

Inhalation:	Move to fresh air if symptoms develop. If breathing is difficult, give oxygen and call physician.
Eye Contact:	Flush with water for at least 15 minutes. See a physician if irritation develops.
Ingestion:	Do not induce vomiting unless told to do so by a medical professional.
Most Important symptoms and effects, acute and delayed:	May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation, and may result in cardiac sensitization.
Indication of immediate medical attention and special treatment, if applicable:	N/A
Skin Contact:	Wash with soap and water at first opportunity.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Water, dry chemicals, CO ₂
Unsuitable extinguishing media:	None
Special hazards arising from the chemical:	None
Precautions for fire-fighters:	A self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater
Methods and material for containment and cleanup:	Absorb with sawdust, etc., and shovel into container. Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.

Section 7: Handling and Storage

Precautions for safe handling:	Store between 65°F and 85°F out of sunlight. Relieve pressure slowly when opening container. Under no circumstances should empty drums be burned or cut open with an electric or gas torch.
Conditions for safe storage, including any incompatibilities:	Keep tightly sealed.

Section 8: Exposure Controls and PPE

Exposure Limits

Component:	Type	Value
Tertiary Amine Catalysts ¹	TWA	None established

¹Not listed as a carcinogen (NTA, IARC, OSHA)

Exposure Controls

Respiratory Protection:	The specific respirator selected must be based on contamination levels of this material found in the workplace and the working limits of the respirator. A supplied air, full-face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self-contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, <i>see OSHA standard 29CFR 1910.134</i> . All equipment must be NIOSH approved and maintained.
Hand, eye, skin, body protection:	Wear goggles or chemical safety glasses and chemically resistant rubber or plastic gloves. Avoid eye and skin contact. Eye wash system and showers should be available.

Section 9: Physical and Chemical Properties

Basic chemical and physical properties

Appearance:	Liquid	Flammability:	N/A
Color:	Green	Upper/lower flammability or explosive limits:	N/A
Odor:	Faint ammonia odor	Vapor pressure:	N/A
Odor threshold:	N/A	Vapor density:	N/A
pH:	N/A	Relative density:	1.055g/mL
Melting pt/freezing pt:	<32°F	Solubility(ies):	highly soluble in water
Boiling pt/boiling range:	>200°F	Partition coefficient (n-octanol/water):	N/A
Flash point:	>200°F	Auto-ignition temperature:	>500°F
Evaporation rate:	Slower than ether	Decomposition temperature:	>500°F

Section 10: Stability and Reactivity

Chemical stability:	Stable
Possibility of hazardous reactions:	N/A
Conditions to avoid:	N/A
Incompatible materials:	Isocyanates and other chemicals that react with hydroxyl groups.
Hazardous decomposition products:	When burned, CO, CO ₂ , NO _x aliphatic fragments, halogens, halogen acids, and possibly carbonyl halides.

Section 11: Toxicological Information

Acute toxicity:	May cause skin irritation
Chronic toxicity:	Not available
Likely routes of exposure:	Skin
Symptoms related to physical, chemical and toxicological characteristics:	May cause skin irritation
Delayed and immediate effects and chronic effects from short and long-term exposure:	May cause skin irritation; avoid contact with eyes
No carcinogenic substances as defined by IARC / NTP or OSHA	

Section 12: Ecological Information

Ecotoxicity:	Not a marine pollutant
Persistence and degradability:	No known significant effects
Bioaccumulative potential:	Does not bioaccumulate
Mobility in soil:	

Section 13: Disposal

Waste disposal:	Component drums can be sent to drum reconditioners or disposed of as ordinary industrial waste in compliance with pertinent regulations
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Section 14: Transport

UN number:	Not regulated
UN Proper shipping name:	Not regulated
Transport Hazard class(es):	Not regulated
Packing group, if applicable:	Not regulated
Marine pollutant (YorN):	N
Special precautions:	None

Section 15: Regulatory

Relevant safety, health, and environmental regulations

Inventory Status:	All components TSCA listed
US Regulations:	No ingredients listed
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:	No ingredients listed

Section 16: Other

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