

SAFETY DATA SHEET

URC7400 Encapsulant



Section 1. Identification


GHS product identifier	: URC7400 Encapsulant	
Chemical name	: URC7400 - Part A	Diphenylmethane-4,4'-diisocyanate
	: URC7400 - Part B	Polyether polyol blend
Other means of identification	: URC7400 - Part A	URC7400 Encapsulant – Part A (MDI)
	: URC7400 - Part B	URC7400 Encapsulant – Part B (Polyol)
Product code	: URB7400 - Part A	
	: URC7400 - Part B	RU5090 UR0740
Identified uses		Potting/Encapsulating
Supplier's details	: Uraseal, Inc.	
	: 1 Washington Street, Suite 204	
	: Dover, NH 03820	
	: Tel: 1-603-749-1004	Emergency Number: 1-800-582-0773
Emergency telephone number (with hours of operation)	: Transportation emergencies only: CHEMTREC, U.S. :	1-800-424-9300
	: International: +1-703-527-3887	(24/7)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	The product formed after Part A and Part B are mixed and reacted is non-hazardous.
Classification of the substance or mixture	: URC7400 - Part A
	ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	URC7400 - Part B
	AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 54.2%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 54.2%

GHS label elements

Section 2. Hazards identification

Hazard pictograms	:	
Signal word	:	<p>URC7400 - Part A Danger</p> <p>URC7400 - Part B No signal word.</p>
Hazard statements	:	<p>URC7400 - Part A Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.</p> <p>URC7400 - Part B Harmful to aquatic life with long lasting effects.</p>
<u>Precautionary statements</u>		
Prevention	:	<p>P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection. P285 - In case of inadequate ventilation wear respiratory protection. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.</p>
Response	:	<p>P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.</p>
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified (HNOC)	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.
Product code : Not available.

Ingredient name	%	CAS number
URC7400 - Part A		
4,4'-Methylenediphenyl diisocyanate	30 - 60	101-68-8
γ-Butyrolactone	1 - 5	96-48-0
Methylenediphenyl diisocyanate	1 - 5	26447-40-5
URC7400 - Part B		
Butane-1,4-diol	1 - 5	110-63-4
Ethylenediamine, propoxylated	1 - 5	25214-63-5
Thiabenzazol	0.1 - 1	148-79-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
- Skin contact** : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

Eye contact	:	URC7400 - Part A	Causes serious eye irritation.
		URC7400 - Part B	No known significant effects or critical hazards.
Inhalation	:	URC7400 - Part A	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		URC7400 - Part B	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact		URC7400 - Part A	Causes skin irritation. May cause an allergic skin reaction.
		URC7400 - Part B	No known significant effects or critical hazards.
Ingestion	:	URC7400 - Part A	Irritating to mouth, throat and stomach.
		URC7400 - Part B	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides
- Special protective actions for fire-fighters** : No special measures are required.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

- Spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	ACGIH TLV (United States, 4/2014). TWA: 0.005 ppm 8 hours. NIOSH REL (United States, 10/2013). CEIL: 0.2 mg/m ³ 10 minutes. CEIL: 0.02 ppm 10 minutes. TWA: 0.05 mg/m ³ 10 hours. TWA: 0.005 ppm 10 hours. OSHA PEL (United States, 2/2013). CEIL: 0.2 mg/m ³ CEIL: 0.02 ppm

- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

- Physical state** : **URC7400 - Part A** Liquid. [Translucent.]
URC7400 - Part B Liquid. [Translucent.]
- Color** : **URC7400 - Part A** Yellow. [Light]
URC7400 - Part B Water white
- Odor** : **URC7400 - Part A** Faintly aromatic.
URC7400 - Part B Slight.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : **URC7400 - Part A** Not available.
URC7400 - Part B -23°C (-9.4°F)
- Boiling point** : **URC7400 - Part A** 200°C (392°F)
URC7400 - Part B 277°C (530.6°F)
- Flash point** : **URC7400 - Part A** Open cup: >200°C (>392°F) [Cleveland.]
URC7400 - Part B Closed cup: 143°C (289.4°F) [Pensky-Martens.]
- Evaporation rate** : **URC7400 - Part A** Not available
URC7400 - Part B >1 (Water = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : **URC7400 - Part A** 1.19
URC7400 - Part B 1.02
- Solubility** : **URC7400 - Part A** Reacts with water.
URC7400 - Part B Primarily soluble.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : **URC7400 - Part A** Dynamic: 630 mPa·s (630 cP)
URC7400 - Part B Dynamic: 500 to 800 mPa·s (500 to 800 cP)
- Volatility** : Not available.
- VOC (w/w)** : 62.2% (w/w)

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
γ -Butyrolactone	LD50 Oral	Rat	1540 mg/kg	-
URC7400 - Part B Butane-1,4-diol	LD50 Oral	Rat	1525 mg/kg	-
Thiabendazol	LD50 Oral	Rat	2080 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
γ -Butyrolactone	Skin - Severe irritant	Rabbit	-	500 μ L	-

Sensitization

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	-	-	-	-	-	-
γ -Butyrolactone	-	-	-	-	-	-

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
γ -Butyrolactone	Category 3	Not applicable.	Narcotic effects
Methylenediphenyl diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
URC7400 - Part B Butane-1,4-diol	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate Methylenediphenyl diisocyanate	Category 2 Category 2	Not determined Not determined	Not determined Not determined

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

- Eye contact** :
 - URC7400 - Part A** Causes serious eye irritation.
 - URC7400 - Part B** No known significant effects or critical hazards.
- Inhalation** :
 - URC7400 - Part A** Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
 - URC7400 - Part B** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** :
 - URC7400 - Part A** Causes skin irritation. May cause an allergic skin reaction.
 - URC7400 - Part B** No known significant effects or critical hazards.
- Ingestion** :
 - URC7400 - Part A** Irritating to mouth, throat and stomach.
 - URC7400 - Part B** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
 - pain or irritation
 - watering
 - redness
- Inhalation** : Adverse symptoms may include the following:
 - respiratory tract irritation
 - coughing
 - wheezing and breathing difficulties
 - asthma
- Skin contact** : Adverse symptoms may include the following:
 - irritation
 - redness
- Ingestion** : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Potential chronic health effects

Section 11. Toxicological information

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No carcinogenic substances as defined by IARC/NTP or OSHA
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
URC7400 - Part A Oral	51851.9 mg/kg
Inhalation (dusts and mists)	3.001 mg/L
URC7400 - Part B Oral	15999.3 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	Acute IC50 1.5 mg/L	Algae	72 hours
URC7400 - Part B Thiabendazol	Acute EC50 0.31 ppm Fresh water Acute LC50 0.56 ppm Fresh water Chronic NOEC 0.042 ppm Marine water Chronic NOEC 0.11 ppm	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) Daphnia - Daphnia magna Fish - Pimephales promelas	48 hours 96 hours 21 days 33 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	4.51	200	low
γ-Butyrolactone Methylenediphenyl diisocyanate	-0.566 4.51	- 200	low low
URC7400 - Part B Butane-1,4-diol	-0.88	-	low
Ethylenediamine, propoxylated	-1.56 to 1.82	-	low
Thiabendazol	2.47	-	low

Mobility in soil




- Soil/water partition coefficient (K_{oc})** : There is no data available.

- Other adverse effects** : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KITS RQ (4,4'-Methylenediphenyl diisocyanate)	CHEMICAL KITS	CHEMICAL KITS
Transport hazard class(es)	9 	9 	9 
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Additional information	<p>Reportable quantity 46142.7 lbs / 20948.8 kg The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.</p> <p>Remarks Limited Quantity Exemption</p>	<p>Emergency schedules (EmS) F-A, S-P</p> <p>Remarks Limited Quantity Exemption</p>	<p>Remarks Limited Quantity Exemption</p>

AERG : 171

DOT-RQ Details : **URC7400 - Part A**
4,4'-Methylenediphenyl diisocyanate 5000 lbs / 2270 kg

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR:** Siloxanes and Silicones, di-Me, reaction products with silica; 4,4'-Methylenediphenyl diisocyanate; Methylenediphenyl diisocyanate
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
TSCA 8(c) calls for record of SAR: 4,4'-Methylenediphenyl diisocyanate; Methylenediphenyl diisocyanate
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: Zinc neodecanoate; 4,4'-Methylenediphenyl diisocyanate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
URC7400 - Part A 4,4'-Methylenediphenyl diisocyanate	30 - 60	No.	No.	No.	Yes.	Yes.
γ-Butyrolactone Methylenediphenyl diisocyanate	1 - 5	No.	No.	No.	Yes.	No.
URC7400 - Part B Butane-1,4-diol	1 - 5	No.	No.	No.	Yes.	No.
Ethylenediamine, propoxylated	1 - 5	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	URB7400 - Part A 4,4'-Methylenediphenyl diisocyanate	101-68-8	30 - 60
Supplier notification	URB7400 - Part A 4,4'-Methylenediphenyl diisocyanate	101-68-8	30 - 60

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: 4,4'-Methylenediphenyl diisocyanate

New York : The following components are listed: 4,4'-Methylenediphenyl diisocyanate

Section 15. Regulatory information

New Jersey : The following components are listed: Zinc neodecanoate; 4,4'-Methylenediphenyl diisocyanate

Pennsylvania : The following components are listed: 4,4'-Methylenediphenyl diisocyanate

California Prop. 65

No products were found.

Section 16. Other information

History

Date of issue mm/dd/yyyy : 03/14/2016

Version : 2

Prepared by : Uraseal, Inc.

Key to abbreviations

: ATE = Acute Toxicity Estimate
 : BCF = Bioconcentration Factor
 : GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 : IATA = International Air Transport Association
 : IBC = Intermediate Bulk Container
 : IMDG = International Maritime Dangerous Goods
 : LogPow = logarithm of the octanol/water partition coefficient
 : MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 : UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.