

## SAFETY DATA SHEET – UNIVERSAL RESIN

### SECTION 1. IDENTIFICATION

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<b>Product Identifier</b>	Universal Resin
<b>Other Means of Identification</b>	Hydrophobic polyurethane grout
<b>Recommended Use</b>	Professional use only
<b>Restrictions on Use</b>	None known
<b>Supplier Identifier</b>	Multiurethanes Ltd. 5245 Creekbank Rd Mississauga, ON L4W 1N3 Canada
<b>Emergency Telephone Number</b>	1-800-663-6633

### SECTION 2. HAZARD IDENTIFICATION

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#### Classification

<u>Skin Corrosion/Irritation</u>	Category 2
<u>Serious Eye Damage/Eye Irritation</u>	Category 1
<u>Respiratory Sensitization</u>	Category 1
<u>Skin Sensitization</u>	Category 1
<u>Carcinogenicity</u>	Category 2
<u>Reproductive Toxicity (Fertility)</u>	Category 1B
<u>Reproductive Toxicity (Unborn Child)</u>	Category 1B

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Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3

Specific Target Organ Toxicity - Repeated Exposure (Respiratory System) Category 2

### Label Elements

Hazard Pictograms



Signal Word DANGER

Hazard Statements 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 damage fertility or the unborn child.  
Suspected of causing cancer.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure (respiratory system).  
Very toxic to aquatic life with long lasting effects.

Precautionary Statements **Prevention**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear appropriate protective equipment.  
Avoid breathing fume/mist/vapours.  
Use only outdoors or in a well-ventilated area.  
Wash hands thoroughly after handling.

**Response**  
IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, seek medical attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.  
IF INHALED: If breathing is difficult, remove person to fresh

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air and keep comfortable for breathing. Seek medical attention.

### **Storage**

Keep container tightly closed and sealed until ready for use. Store in original container protected from sunlight in a dry, cool and well-ventilated area. Keep away from incompatibles.

### **Disposal**

Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the sole responsibility of the waste generator.

**Other Hazards** None known

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Mixture

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (% by weight)</u>	<u>Common Names / Synonyms</u>	<u>Other Identifiers</u>
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	≥ 25 - ≤ 50%	Not available	Not available
Diisobutyl phthalate	84-69-5	≥ 25 - ≤ 50%	Not available	Not available
4,4'-Methylenediphenyl Diisocyanate	101-68-8	≥ 10 - ≤ 25%	Not available	Not available
4-Nonylphenol, branched, ethoxylated	127087-87-0	≥ 3 - ≤ 5%	Not available	Not available

### Notes

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.

## SECTION 4. FIRST-AID MEASURES

### Inhalation

Seek immediate medical attention. Call a poison centre or physician. 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

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resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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**

Seek immediate medical attention. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### **Eye Contact**

Seek immediate medical attention. Call a poison centre or physician. 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. Chemical burns must be treated promptly by a physician.

### **Ingestion**

Seek immediate medical attention. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### **Most Important Symptoms and Effects, Acute and Delayed**

Causes serious eye damage. Over-exposure symptoms may include pain, watering and redness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Over-exposure symptoms may include respiratory tract irritation, coughing, wheezing, breathing difficulties, asthma, reduced fetal weight, increase in fetal deaths and skeletal malformations. Causes skin irritation. May cause an allergic skin reaction. Over-exposure symptoms may include pain, irritation, redness, blistering, reduced fetal weight, increase in fetal deaths and skeletal malformations.

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**Indication of Immediate Medical Attention and Special Treatment Needed** 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. Treat symptomatically. If exposed or concerned, seek medical advice and attention.

### SECTION 5. FIRE-FIGHTING MEASURES

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#### Extinguishing Media

Suitable Extinguishing Media Use media suitable to the surrounding fire.

Unsuitable Extinguishing Media None known

**Specific Hazards Arising from the Product** In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic 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. Decomposition products may include carbon dioxide, carbon monoxide and nitrogen oxides.

**Special Protective Equipment and Precautions for Firefighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Firefighters 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

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**Personal Precautions, Protective Equipment and Emergency Procedures** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not get in eyes or on skin. Do not breathe fume/mist/vapours. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Use appropriate personal protective equipment.

**Methods and Material for Containment and Cleaning Up** 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

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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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

<b>Notification Procedures</b>	Not available
<b>Environmental Precautions</b>	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 if released in large quantities. Collect spillage.

### SECTION 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	Put on appropriate personal protective equipment (refer to 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 vapour or mist. Do not ingest. 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. Good housekeeping is needed during storage, transfer, handling, and use of this material. Handle in accordance with good industrial hygiene and safety procedures. Always wash hands immediately after handling this product.
<b>Conditions for Safe Storage (including incompatibilities)</b>	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 (water, amines, strong bases, alcohols, copper alloys, aluminum) 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

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contamination.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control Parameters – Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Isocyanic acid, polymethylenepolyphenylene ester	8 hrs OEL	0.07 mg/m <sup>3</sup> 8 hours 0.005 ppm 8 hours	Province of Alberta (Canada, 04/2009)
Isocyanic acid, polymethylenepolyphenylene ester	TWA	0.005 ppm 8 hours	Province of British Columbia (Canada, 07/2016); Province of Ontario (Canada, 07/2015)
Isocyanic acid, polymethylenepolyphenylene ester	CEIL	0.01 ppm	Province of British Columbia (Canada, 07/2016)
Isocyanic acid, polymethylenepolyphenylene ester	CEIL	0.02 ppm	Province of Ontario (Canada, 07/2015)
4,4'-Methylenediphenyl Diisocyanate	TWA	0.005 ppm 8 hours	ACGIH TLV (US, 03/2017); Province of British Columbia (Canada, 07/2016). Absorbed through skin. Skin sensitizer.; Province of Ontario (Canada, 07/2015); Province of Saskatchewan (Canada, 07/2013)
4,4'-Methylenediphenyl Diisocyanate	TWA	0.05 mg/m <sup>3</sup> 10 hours 0.005 ppm 10 hours	NIOSH REL (US, 10/2016)
4,4'-Methylenediphenyl Diisocyanate	CEIL	0.2 mg/m <sup>3</sup> 10 minutes 0.02 ppm 10 minutes	NIOSH REL (US, 10/2016)
4,4'-Methylenediphenyl Diisocyanate	CEIL	0.02 ppm 0.2 mg/m <sup>3</sup>	OSHA PEL (US, 06/2016)
4,4'-Methylenediphenyl Diisocyanate	8 hrs OEL	0.005 ppm 8 hours 0.05 mg/m <sup>3</sup> 8 hours	Province of Alberta (Canada, 04/2009)
4,4'-Methylenediphenyl Diisocyanate	C	0.01 ppm	Province of British Columbia (Canada, 07/2016). Absorbed through skin. Skin sensitizer.
4,4'-Methylenediphenyl Diisocyanate	TWAEV	0.005 ppm 8 hours 0.051 mg/m <sup>3</sup> 8 hours	Province of Quebec (Canada, 01/2014). Skin sensitizer.
4,4'-Methylenediphenyl Diisocyanate	STEL	0.015 ppm 15 minutes	Province of Saskatchewan (Canada, 07/2013)

#### Appropriate Engineering Controls

Use only adequate ventilation. If user operations generate dust, fumes, gas, vapour 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. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual Protection Measures

##### Eye/Face Protection

Safety eyewear complying with an approved standard should

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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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin 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 cases of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 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.

### Respiratory Protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Hygiene Measures

Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Ensure that eyewash stations and safety showers are in close proximity.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Brown to light brown liquid
<b>Odour</b>	Slightly musty
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point / Freezing Point</b>	Not available



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<b>Initial Boiling Point and Boiling Range</b>	Not available
<b>Flash Point</b>	Closed cup: > 93.33°C (> 200°F)
<b>Evaporation Rate (BuAe = 1)</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.16 ± 0.020
<b>Solubility in Water</b>	Insoluble in water. Reacts slowly with water to liberate carbon dioxide.
<b>Solubility (other)</b>	Not available
<b>Partition Coefficient, n-octanol / water (logKow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Dynamic (room temperature): 140 mPa·s (140 ± 30 cP)

### SECTION 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical Stability</b>	Reacts with moisture and other materials that react with isocyanate.
<b>Possibility of Hazardous Reactions</b>	None under normal conditions.
<b>Conditions to Avoid</b>	Avoid extreme heat, direct sunlight, and moisture.

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<b>Incompatible Materials</b>	Water, amines, strong bases, alcohols, copper alloys, aluminum.
<b>Hazardous Decomposition Products</b>	By heat and fire: carbon monoxide, oxides of nitrogen, hydrogen.

### SECTION 11. TOXICOLOGICAL INFORMATION

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#### Information on Likely Routes of Exposure

<u>Inhalation</u>	Yes
<u>Skin Contact</u>	Yes
<u>Eye Contact</u>	Yes
<u>Ingestion</u>	Yes

#### Signs and Symptoms of Exposure

*Inhalation*  
May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Over-exposure symptoms may include respiratory tract irritation, coughing, wheezing, breathing difficulties, asthma, reduced fetal weight, increase in fetal deaths and skeletal malformations.

*Skin Contact*  
Causes skin irritation. May cause an allergic skin reaction. Over-exposure symptoms may include pain, irritation, redness, blistering, reduced fetal weight, increase in fetal deaths and skeletal malformations.

*Eye Contact*  
Causes serious eye damage. Over-exposure symptoms may include pain, watering and redness.

*Ingestion*  
No known significant effects or critical hazards. Adverse symptoms may include stomach pains, reduced fetal weight, increase in fetal deaths and skeletal malformations.

#### Potential Chronic Health Effects

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.

#### Acute Toxicity

Inhalation (vapors) - ATE value = 31.14 mg/L

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Inhalation (dusts and mists) – ATE value = 6.269 mg/L

**Skin Corrosion/Irritation**

No data available

**Serious Eye Damage/Irritation**

*Isocyanic acid, polymethylenepolyphenylene ester*  
Mild irritant (100 mg exposure, rabbit)

*4,4'-Methylenediphenyl Diisocyanate*  
Moderate irritant (100 mg exposure, rabbit)

**Specific Target Organ Toxicity - Single Exposure**

*Isocyanic acid, polymethylenepolyphenylene ester*  
Category 3 – Respiratory tract irritation

*4,4'-Methylenediphenyl Diisocyanate*  
Category 3 – Respiratory tract irritation

**Specific Target Organ Toxicity - Repeated Exposure**

*Isocyanic acid, polymethylenepolyphenylene ester*  
Category 2 – Respiratory system (inhalation)

*4,4'-Methylenediphenyl Diisocyanate*  
Category 2 – not determined

**Aspiration Hazard**

No data available

**Respiratory and/or Skin Sensitization**

No data available

**Reproductive Toxicity**

May damage the unborn child and fertility.

**Germ Cell Mutagenicity**

No known significant effects or critical hazards.

**Carcinogenicity**

Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

<u>Chemical Name</u>	<u>IARC</u>	<u>ACGIH</u>	<u>OSHA</u>
Isocyanic acid, polymethylenepolyphenylene ester	3	-	-
4,4'-Methylenediphenyl Diisocyanate	3	-	-

**Toxicological Data**

<u>Chemical Name</u>	<u>LC50</u>	<u>LD50</u>
Isocyanic acid, polymethylenepolyphenylene ester	Not available	> 9400 mg/kg (dermal, rabbit) 49 g/kg (oral, rat)
Diisobutyl phthalate	Not available	15 g/kg (oral, rat)
4,4'-Methylenediphenyl Diisocyanate	Not available	9200 mg/kg (oral, rat)

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### SECTION 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Not available

**Persistence and Degradability** Not available

#### Bioaccumulative Potential

<u>Chemical Name</u>	<u>LogP<sub>ow</sub></u>	<u>BCF</u>	<u>Potential</u>
Diisobutyl phthalate	4.11	622	High
4,4'-Methylenediphenyl Diisocyanate	4.51	200	Low

**Mobility in Soil** Not available

**Other Adverse Effects** No known significant effects or critical hazards.

### SECTION 13. DISPOSAL CONSIDERATIONS

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**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 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 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.

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### SECTION 14. TRANSPORT INFORMATION

<u>Regulation</u>	<u>UN No.</u>	<u>Proper Shipping Name</u>	<u>Technical Name (for N.O.S. entry)</u>	<u>Transport Hazard Class(es)</u>	<u>Packing Group</u>
<b>TDG</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	(Diisobutyl phthalate). Marine pollutant (Diisobutyl phthalate)	9	III
<b>additional information</b>	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.				
<b>49 CFR/DOT</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	(Diisobutyl phthalate). Marine pollutant (Diisobutyl phthalate) RQ (4,4'- Methylene-diphenyl Diisocyanate)	9	III
<b>additional information</b>	<i>Non-bulk packages of this product are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤ 5 L or ≤ 5 kg.</i> <b>Reportable quantity</b> 9098.9 kg / 20041.7 lbs [7843.9 L / 2072.1 gal]. Package sizes shipped in quantities less than the reportable quantity are not subject to the RQ transportation requirements.				
<b>IMDG</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	(Diisobutyl phthalate). Marine pollutant (Diisobutyl phthalate)	9	III
<b>additional information</b>	<i>This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</i>				
<b>ICAO/IATA</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	(Diisobutyl phthalate)	9	III
<b>additional information</b>	<i>This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.</i>				

#### Special Precautions

For transport within the 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.

#### Environmental Hazards

Refer to section 12.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

### SECTION 15. REGULATORY INFORMATION

#### Canadian Information

##### WHMIS

Refer to section 2.

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NPRI The following components are listed: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate; 4-Nonylphenol, branched, ethoxylated

CEPA Toxic substances The following components are listed: 4-Nonylphenol, branched, ethoxylated

Canada inventory (DSL/NDSL) Not determined

### US Information

TSCA 8(a) PAIR: 4,4'-Methylenediphenyl Diisocyanate; Diisobutyl phthalate; 4-Nonylphenol, branched, ethoxylated; Dodecamethylcyclohexasiloxane; Decamethylcyclopentasiloxane; Octamethylcyclotetrasiloxane

8(a) CDR Exempt/Partial exemption: Not determined

8(b) US inventory: Not determined

8(c) calls for record of SAR: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate

Clean Water Act (CWA) 307 4,4'-Methylenediphenyl Diisocyanate; Diisobutyl phthalate

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

SARA Title III - Section 311/312 - Hazard Chemical Inventory **Classification:**  
Skin Corrosion/Irritation – Category 2  
Serious Eye Damage/Eye Irritation – Category 1  
Respiratory Sensitization – Category 1  
Skin Sensitization – Category 1  
Carcinogenicity – Category 2  
Toxic to Reproduction (Fertility) – Category 1B  
Toxic to Reproduction (Unborn child) – Category 1B  
Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) – Category 3  
Specific Target Organ Toxicity (Repeated Exposure) (respiratory system) – Category 2

**Composition/Information on Ingredients:**  
*Isocyanic acid, polymethylenepolyphenylene ester*  
Acute Toxicity (inhalation) – Category 4  
Skin Corrosion/Irritation – Category 2  
Serious Eye Damage/Eye Irritation – Category 2A

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Respiratory Sensitization – Category 1  
Skin Sensitization – Category 1  
Carcinogenicity – Category 2  
Specific Target Organ Toxicity (Single Exposure) (respiratory tract irritation) – Category 3  
Specific Target Organ Toxicity (Repeated Exposure) – Category 2  
Specific Target Organ Toxicity (Repeated Exposure) (respiratory system) (inhalation) – Category 2

### *Diisobutyl phthalate*

Toxic to Reproduction (Fertility) – Category 1B  
Toxic to Reproduction (Unborn child) – Category 1B

### *4,4'-Methylenediphenyl Diisocyanate*

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  
Carcinogenicity – Category 2  
Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract irritation) – Category 3

### *4-Nonylphenol, branched, ethoxylated*

Skin Corrosion/Irritation – Category 2  
Serious Eye Damage/Eye Irritation – Category 1

### SARA Title III - Section 313 – Toxic Chemical

#### **Form R – Reporting Requirements:**

Isocyanic acid, polymethylenepolyphenylene ester (CAS #9016-87-9)  
4,4'-Methylenediphenyl Diisocyanate (CAS #101-68-8)

#### **Supplier Notification:**

Isocyanic acid, polymethylenepolyphenylene ester (CAS #9016-87-9)  
4,4'-Methylenediphenyl Diisocyanate (CAS #101-68-8)

### State Regulations

4,4'-Methylenediphenyl Diisocyanate is a listed component in Massachusetts, New York, New Jersey, Pennsylvania.

Isocyanic acid, polymethylenepolyphenylene ester is a listed component in New Jersey.

California Prop. 65 – WARNING: This product can expose you to 1,4-Dioxane, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**International Information**      Not available

### SECTION 16. OTHER INFORMATION

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**Date of Latest Revision**      September 13, 2018

**Disclaimer**

The information provided in this document is correct to the best of our knowledge, information and belief at the date of its publication. This information is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. This information is designed only as a general guidance and is not to be considered a warranty or quality specification. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified above.

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**END OF SAFETY DATA SHEET**