

1**PRODUCT AND COMPANY IDENTIFICATION****Manufacturer**

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Product Name: Ureshell™ Part A ISO
Revision Date: 1/29/2015
Version: 1
Common Name: UreShell™
Product Use: Brushable Plastic Encapsulant

2**HAZARDS IDENTIFICATION****GHS-US Classification**

Skin Irritation 2
Eye Irritation 2A
Respiratory Sensitization 1
Skin Sensitization 1
Specific Target Organ Toxicity After
Single Exposure 3
Specific Target Organ Toxicity After
Repeated Exposure 2

GHS Hazard Pictograms:



Hazard statements (GHS-US)

Causes skin irritation. Causes serious eye 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.

Precautionary statements (GHS-US)

Wash hands thoroughly after handling. Wear protective gloves/ eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Do not breathe gas/mist/vapors/spray. Get medical advice/attention if you feel unwell. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center doctor. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other Hazards

No additional information available.

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COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Name	Product identifier	%	GHS-US classification
Isocyanic acid, polymethylenepolyphenylene ester	(CAS No) 9016-87-9	30 - 60	Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1 Skin Sens. 1 STOT RE 2 STOT SE 3
4,4'-Methylenediphenyl diisocyanate	(CAS No) 101-68-8	30 - 60	Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1 Skin Sens. 1 STOT SE 3 STOT RE 2
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	(CAS No) 5873-54-1	7 - 13	Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1 Skin Sens. 1 TOT SE 3 STOT RE 2

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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FIRST AID MEASURES

Description of First Aid Measures

- Inhalation:** If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Most Important Symptoms and Effects, both acute and delayed

- Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract irritation.
- Skin Contact:** Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.
- Eye Contact:** Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

5 FIRE FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Fire hazard Products of combustion may include, and are not limited to: oxides of carbon.

Advice for firefighters

Protection during firefighting Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Methods and material for containment and cleaning up

For containment Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up Scoop up material and place in a disposal container. Provide ventilation.

Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

7 HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Do not breathe vapour or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures Wash hands before eating, drinking, or smoking. Launder contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

USA ACGIH ACGIH TWA (mg/m³) Not applicable.

USA OSHA OSHA PEL (TWA) (mg/m³) Not applicable.

4,4'-Methylenediphenyl diisocyanate (101-68-8)

USA ACGIH ACGIH TWA (ppm) 0.005 ppm

USA OSHA OSHA PEL (Ceiling) (mg/m³) 0.2 mg/m³

USA OSHA OSHA PEL (Ceiling) (ppm) 0.02 ppm

Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)

USA ACGIH	ACGIH TWA (mg/m ³)	Not applicable.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	Not applicable.

Exposure controls

Appropriate engineering controls	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	Wear chemically resistant protective gloves.
Eye protection	Wear eye protection.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. 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.
Environmental exposure controls	Maintain levels below Community environmental protection thresholds.
Other information	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

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PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid.
Appearance	No data available.
Color	Dark brown.
Odor	Faint aromatic.
Odor threshold	No data available.
pH	No data available.
Relative evaporation rate (butylacetate=1)	No data available.
Melting point	No data available.
Freezing point	No data available.
Boiling point	No data available.
Flash point	> 93 °C (> 200 °F)
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Flammability (solid, gas)	Not flammable.
Vapor pressure	No data available.
Relative vapor density at 20 °C	No data available.
Relative density	1.23 g/cm ³
Solubility	No data available.
Log Pow	No data available.
Log Kow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	85 - 110 cPs
Explosive properties	No data available.
Oxidising properties	No data available.
Explosive limits	No data available.

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PHYSICAL AND CHEMICAL PROPERTIES

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat. Incompatible materials.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include, and are not limited to: oxides of carbon.

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TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity Not classified

UreShell ISO A side

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	No data available

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

LD50 oral rat	49 g/kg
LD50 dermal rabbit	>9400 mg/kg
LC50 inhalation rat	490 mg/m ³ /4/h

4,4'-Methylenediphenyl diisocyanate (101-68-8)

LD50 oral rat	9200 mg/kg
LD50 dermal rabbit	>9400 mg/kg
LC50 inhalation rat	369 mg/m ³ /4/h

Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)

LC50 inhalation rat	387 mg/m ³ /4/h
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Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

IARC group 3 - Not classifiable

4,4'-Methylenediphenyl diisocyanate (101-68-8)

IARC group 3 - Not classifiable

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met..

Symptoms/injuries after inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract irritation.

SDS Version Number: 1.0

URESHELL ISO - A Side

Revision Date: 1/29/2015

Symptoms/injuries after skin contact	Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitisation by skin contact.
Symptoms/injuries after eye contact	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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ECOLOGICAL INFORMATION

Toxicity

Ecology - general May cause long-term adverse effects in the aquatic environment.

Persistence and degradability

UreShell ISO A side

Persistence and degradability No additional information available.

Bioaccumulative potential

UreShell ISO A side

Bioaccumulative potential No additional information available.

Mobility in soil

UreShell ISO A side

Ecology - soil No additional information available.

Other adverse effects

Other adverse effects No additional information available.

Effect on ozone layer No additional information available.

Effect on the global warming No known ecological damage caused by this product.

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DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste disposal recommendations This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

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TRANSPORT INFORMATION

In accordance with DOT

UN number

Not applicable

UN proper shipping name

Not applicable

Additional information

Other information No supplementary information available.

Special transport precautions Do not handle until all safety precautions have been read and understood.

15**REGULATORY INFORMATION****US Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

US State regulations**UreShell ISO A side**

State or local regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16**OTHER INFORMATION**

Indication of changes	None.
Date of issue	01/29/2015
Data sources	SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
Other information	None.

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