

## MATERIAL SAFETY DATA SHEET

### DOLPHIN WINDSCREEN FIX

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

##### Product Details

**Product Name** : DOLPHIN WINDSCREEN FIX  
**Product Code** : AMI WINDSCREEN FIX  
**Recommended Use** : ADHESIVE & SEALING

##### Company Details

**Company Name** : Al Muqarram Insulation Materials Industry L.L.C.  
**Address** : Industrial Area # 15, Post Box No. 24756  
Sharjah, United Arab Emirates

**Phone Number** : +971 (6) 5353796  
**Fax No.** : +971 (6) 5353964  
**E-mail ID** : info@muqarram.com, sales@muqarram.com  
**Website** : [www.muqarram.com](http://www.muqarram.com)

**Emergency Telephone Number: 00971-549981925**

#### 2. HAZARDS IDENTIFICATION

##### Emergency overview

Black colloid with a slight odor. Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### GHS classification

Skin corrosion/irritation Category 3  
Respiratory sensitization Category  
1

##### Label elements

Symbols/Pictograms

**Signal word** : Danger  
**Hazard statements** : Causes mild skin irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statements** :  
**Prevention** : Avoid breathing dust/fume/gas/mist/vapours/spray.  
In case of inadequate ventilation, wear respiratory protection.

**Response** : If skin irritation occurs: 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/physician.

Storage	None.
Disposal	Dispose of contents/container to an approved waste disposal plant.
<b>Physical hazards</b>	
No information available.	
<b>Health hazards</b>	
Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
<b>Environmental hazards</b>	
No information available.	
<b>Other hazards</b>	
No information available.	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Mixture		
Chemical name	CAS No	Weight-%
PU Prepolymer	68092-58-0	30.0-40.0
Petroleum distillates, hydrotreated light	64742-47-8	2.0-2.5
Methylene bisphenyl isocyanate (MDI)	101-68-8	0.9

### 4. FIRST AID MEASURES

<b>Description of first aid measures</b>	
Inhalation	IF INHALED:  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash with soap and water. Consult a physician if necessary.
Eye contact	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.
Ingestion	Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	
Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled	
<b>Self-protection of the first aider</b>	
Use personal protective equipment as required.	
<b>Note to physicians</b>	
Treat symptomatically.	

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	
Suitable extinguishing media	Dry chemical, CO2, water spray or alcohol-resistant foam.
Unsuitable extinguishing media	High volume water jet.

**Special hazard**

Burning can lead to release of irritating and toxic gases and vapors.

**Protective equipment and precautions for firefighters**

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**Prevention of secondary hazards**

Prevent further leakage or spillage if safe to do so. .

For Non-Emergency Personnel

Use personal protective equipment. Provide ventilation. Keep away from igniting sources. Keep away from naked flame or any incandescent material.

For Emergency Responders

Wear personal protective fireproof clothing.

**6.1 Environmental Precautions**

Do not empty into drains or water. Disposal of the chemicals must be made according to official regulations.

**6.2 Methods and Material For Containment and Cleaning Up**

Flood with water to complete polymerization and scrape off the floor. Dispose of contaminated material as waste according to Section 13.

**6.3 Reference to Other Sections**

Any information on personal protection and disposal is given in sections 8 and 13.

## 7. HANDLING AND STORAGE

### Handling

Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Keep away from heat, sparks, flame and other sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations

: Use only with adequate ventilation. Product releases acetic acid during application. Avoid skin and eye contact. Remove contact lenses before applying sealant. Do not handle until hands are completely free from sealant. Keep containers/cartridges tightly closed. Keep out of reach of children. See Section 8 for Personal Protective Equipment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limits

Chemical name	China	Japan	Korea	Australia	Taiwan
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.005 ppm TWA: 0.055 mg/m <sup>3</sup>	0.02 mg/m <sup>3</sup> 0.07 mg/m <sup>3</sup> STEL	-

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Germany	Ontario TWA
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m <sup>3</sup> regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m <sup>3</sup>	IDLH: 75 mg/m <sup>3</sup> Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m <sup>3</sup> 10 min TWA: 0.005 ppm TWA: 0.05 mg/m <sup>3</sup>	-	TWA: 0.005 ppm CEV: 0.02 ppm

Chemical name	Austria	Belgium	European Union	Denmark	Latvia
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	STEL 0.01 ppm STEL 0.1 mg/ m <sup>3</sup> TWA: 0.005 ppm TWA: 0.05 mg/m <sup>3</sup>	-	-	TWA: 0.005 ppm  TWA: 0.05 mg/m <sup>3</sup>	

<b>Chemical name</b> Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	<b>France</b> TWA: 0.01 ppm TWA: 0.1 mg/m <sup>3</sup> STEL: 0.02 ppm STEL: 0.2 mg/m <sup>3</sup>	<b>Finland</b> STEL: 0.035 mg/m <sup>3</sup>	<b>Italy</b> -	<b>Poland</b> ceiling: 0.2 mg/m <sup>3</sup> STEL: 0.09 mg/m <sup>3</sup> TWA: 0.03 mg/m <sup>3</sup>	<b>Spain</b> TWA: 0.005 ppm TWA: 0.052 mg/m <sup>3</sup>
<b>Chemical name</b> Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	<b>Norway</b> TWA: 0.005 ppm TWA: 0.05 mg/m <sup>3</sup> STEL: 0.005 ppm STEL: 0.05 mg/m <sup>3</sup> STEL: 0.01 ppm	<b>Portugal</b> TWA: 0.005 ppm	<b>Switzerland</b> Skin STEL: 0.02 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup>	<b>Netherlands</b> -	<b>United Kingdom</b> TWA: 0.02 mg/m <sup>3</sup>

#### Engineering controls

Showers. Eyewash stations. Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear suitable protective clothing.

Hand protection

Wear protective gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Paste like silica gel / colloid
<b>Color</b>	Black
<b>Odor</b>	Slight odor
<b>Odor threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting point/freezing point</b>	Not determined
<b>Boiling point / boiling range</b>	Not determined
<b>Flash point</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Explosive limits</b>	Not determined
<b>Vapor pressure</b>	Not determined
<b>Vapor density</b>	Not determined
<b>Density</b>	Not determined
<b>Relative density</b>	Not determined
<b>Water solubility</b>	Not determined
<b>Partition coefficient (LogPow)</b>	Not determined
<b>Autoignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic viscosity</b>	Not determined
<b>Explosive properties</b>	Not an explosive
<b>Oxidizing properties</b>	Not determined

## 10. Stability and reactivity

### Stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid  
Heat, flames and sparks.

Incompatible materials  
No information available.

Hazardous decomposition products  
None under normal use conditions

## 11. Toxicological information

### Acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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Petroleum distillates, hydrotreated light (CAS #: 64742-47-8)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	31600 mg/kg (Rat) 9200 mg/kg (Rat)	10000 mg/kg bw (Rabbit)	369 mg/m <sup>3</sup> (Rat) 4 h 367.95 mg/m <sup>3</sup> air (Rat) 4 h

**Skin corrosion/irritation**  
Causes mild skin irritation.

**Serious eye damage/eye irritation**  
Although the product does not have a classification of eye irritation, but try to avoid contact with the eyes. It may cause eye irritation.

**Sensitization**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

**Germ cell mutagenicity**  
No information available.

**Carcinogenicity**

Chemical name	IARC
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	Group 3

**Reproductive toxicity**  
No information available.

**STOT - single exposure**  
No information available.

**STOT - repeated exposure**  
No information available.

**Aspiration hazard**  
No information available.

## 12. Ecological information

### Ecotoxicity

Chemical name	Algae/Aquatic plants EC50	Fish LC50	Crustacea EC50
Petroleum distillates, hydrotreated light (CAS #: 64742-47-8)	-	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static	4720: 96 h Dendronereides heteropoda mg/L LC50
Methylene bisphenyl isocyanate (MDI) (CAS #: 101-68-8)	> 1640 mg/L : 3 d Desmodesmus subspicatus	>= 500 mg/L : 24 h Danio rerio	>= 500 mg/L : 24 h Limnea stagnalis

**Persistence and degradability**  
No information available.

**Bioaccumulative potential**



Chemical	Bioconcentration factor (BCF)
Petroleum distillates, hydrotreated light (CAS #: 64742-47-8)	159
Xylenes (o-, m-, p- isomers) (CAS #: 1330-20-7)	15

**Mobility in soil**

No information available.

**13. Disposal Considerations**

**Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. Transport information**

**14.1. UN Number**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	Not applicable
<b>Special precautions</b>	No information available
<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	Not applicable

**15. Regulatory information**

Component	IECSC	List of Dangerous Goods	China - List of Dangerous Chemicals
PU Prepolymer 68092-58-0 ( 30.0-40.0 )	X	-	-
Petroleum distillates, hydrotreated light 64742-47-8 ( 2.0-2.5 )	X	-	-
Methylene bisphenyl isocyanate (MDI) 101-68-8 ( 0.9 )	X	-	Present

**International inventories**

Component	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	KECL	PICCS	TSCA
PU Prepolymer 68092-58-0 (30.0-40.0)	X	X	-	X	X	-	X
Petroleum distillates, hydrotreated light 64742-47-8 (2.0-2.5)	X	X	X	X	X	X	X





World Class  
CHEMICALS

Methylene bisphenyl isocyanate (MDI) 101-68-8 (0.9)	X	X	X	X	X	X	
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"X" Listed  
"-" Not Listed

## 16. Other information

### Revision note

Issue date	07-Mar-2017
Revision date	07-Mar-2017
Revision note	Not applicable

### Key or legend to abbreviations and acronyms used in the safety data sheet

- TWA** - TWA (Time Weighted Average)
- STEL** - STEL (Short Term Exposure Limit)
- Ceiling** - Maximum limit value
- TSCA** - Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- IECSC** - Chinese Inventory of Existing Chemical Substances
- EINECS/ELINCS** - European Inventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japanese Existing and New Chemical Substances
- KECL** - Korea Existing Chemicals List
- NZIoC** - New Zealand Inventory of Chemicals
- PICCS** - The Philippine Inventory of Chemicals and Chemical Substances
- AICS** - The Australian Inventory of Chemical Substances

### Key literature references and sources for data

ECHA: <http://echa.europa.eu/>  
 IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng) HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

### Disclaimer

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