



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CCW-Liquideck Part B

**Product Use:** Waterproofing/Surfacing Compound

**Manufacturer/Supplier**

Carlisle Coatings & Waterproofing Incorporated  
900 Hensley Lane  
Wylie, TX 75098

**Internet Address:** www.Carlisle-CCW.com

**Fax Number:** (972) 442-0076

**Phone Numbers**

**Medical Emergency:**

**CHEMTREC (USA):** (800) 424-9300

**CHEMTREC (International):**

**MSDS Assistance:** (972) 442-6545

**Fax On Demand:** NA

**Technical Assistance:** (888) 229-2199

**Customer Service:** (888) 229-0199

### 2. COMPONENT INFORMATION

Component	CAS No.	Percent	Hazardous in Blend
Diphenyl methane diisocyanate (MDI) containing:	026447-40-5	40 - 60	Yes
Methylene bis(phenylisocyanate)	101-68-8		Yes
Diphenyl methane 4,4' diisocyanate Homopolymer	039310-05-9	10 - 20	Yes
Aromatic Hydrocarbon oil	64742-03-6		No
Polyether polyol	65395-10-0		No

### 3. HAZARDS IDENTIFICATION

**Emergency and Hazards Overview:**

Causes severe irritation to eyes and skin. May be harmful if swallowed. Read and understand all health and safety information on the product label and Material Safety Data Sheet before use.

**Ratings**

**Health** 2 **Flammability** 2 **Reactivity** 1

**Primary Route of Exposure:** Skin x Inhalation x Eye x Ingestion x

**Health Effect Information**

**Eye Contact:** Causes severe eye irritation if wiped or rubbed into eyes.

**Skin Contact:** Causes severe skin irritation. Some persons may develop skin sensitization.

**Inhalation:** Inhalation may cause nose, throat, and respiratory irritation. May produce CNS depression characterized by giddiness, headache, dizziness and nausea..

**Ingestion:** Moderately toxic. May produce symptoms similar to inhalation.

**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin, and respiratory disorders may be aggravated by exposure.

#### 4. FIRST AID INFORMATION

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**Eye Contact:** Flush with water for 15 minutes. Get medical attention.

**Skin Contact:** Wipe off and flush with water for 15 minutes. Wash skin with soap and water. Immediately remove contaminated clothing and wash before reuse. Leather articles, including shoes, cannot be decontaminated and should be destroyed. Get medical attention.

**Inhalation:** Remove to fresh air. If breathing has stopped, start artificial respiration. Oxygen may be administered. Get medical attention.

**Ingestion:** Consult a physician immediately. Do not induce vomiting unless directed to do so by a physician.

**Notes to Physician:** This product contains aromatic and aliphatic hydrocarbon solvents and isocyanate.

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#### 5. FIRES AND EXPLOSION INFORMATION

##### Flammable Properties

**Flash Point:** 220 °F

**Test Method:** TCC

**Flame extension:**

**Test Method:**

##### Flammable Limits in Air

**Upper Percent:** NA

**Lower Percent:** NA

**Auto ignition Temperature:** NA

**Test Method:**

**Extinguishing Media:** CO<sub>2</sub>, foam, dry chemical. NOTE: Water may react violently with hot product,

##### Fire Fighting Measures

**Special Fire Fighting Procedures and Equipment:** Avoid the use of water. Wear NIOSH/OSHA approved, self-contained breathing apparatus and full protective gear. Heat may build pressure and rupture closed container.

**Unusual Fire and Explosion Conditions:** In case of fire, evacuate all downwind personnel. If product becomes contaminated, do not reseal containers as pressure build up may rupture them.

**Hazardous Combustion By-Products:** carbon dioxide, carbon monoxide, HCN, NO<sub>x</sub>, hydrocarbon fragments.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personnel Safeguards:** Eliminate any ignition sources and ventilate area. Evacuate non-essential personnel. Clean-up responders should put on required personal protective equipment.

##### Regulatory Notifications:

Spill reporting requirements and reportable quantities vary by region. Consult all applicable state and local regulations. For Canada, observe all precautions noted above.

**Containment and Clean up:** Dike with inert absorbent material. Prevent spill from entering drinking water supplies, sewers, or waterways. Cover spill with inert absorbent material and remove for disposal.

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## 7. HANDLING AND STORAGE INFORMATION

**Handling:** Avoid prolonged contact with skin. Use solvent resistant gloves. Avoid rubbing eyes while handling. The cured coating produces hazardous dust when it is subjected to operations such as milling, sawing, or sanding.

**Storage:** Store in a protected, cool (50°F- 85°F), ventilated, dry, environment away from direct sunlight. Avoid heat, sparks, open flames, electrical equipment, welding torches, pilot lights, etc. Keep containers tightly closed.

### Empty Container Warnings

**Drums:** Do not reuse empty drums or containers. Do not cut, drill, grind, or weld on or near the empty drums.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

### Exposure Limits and Guidelines

Component	CAS No.	Exposure Limit
Diphenyl methane diisocyanate (MDI) containing:	026447-40-5	
Methylene bis(phenylisocyanate)	101-68-8	0.02 ppm OSHA Ceiling
Diphenyl methane 4,4' diisocyanate Homopolymer	039310-05-9	None established
Aromatic Hydrocarbon oil	64742-03-6	5 mg/m3 ppm OSHA TWA

### Personal Protective Equipment

**Eye/Face Protection:** Wear safety goggles. Remove contact lenses.

**Skin Protection:** Use protective, solvent resistant rubber gloves.

**Respiratory Protection:** Provide adequate ventilation to maintain vapors below PEL/TWA. If vapor levels are exceeded, use NIOSH approved respirator, both during and immediately after application, until vapor levels are below limits.

**Personal Hygiene:** Avoid rubbing eyes during handling. Use good personal hygiene practices to avoid incidental ingestion.

### Engineering Controls / Work Practices

**Ventilation:** Provide local exhaust or area ventilation to maintain concentration of vapors below PEL/TWA.

**Other:** Source of clean water should be available in the work area for flushing eyes and skin. Wash thoroughly with soap and water after use and before eating.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Amber liquid	<b>Vapor Pressure:</b> <1 at 20 deg C (0.0003 for MDI)
<b>Odor:</b> typical solvent odor	
<b>Physical state:</b> viscous liquid	<b>Vapor Density (air=1):</b> > air
<b>pH:</b> NA	<b>Percent Volatile by Volume:</b> NA
<b>DOT Corrosivity:</b> NA	<b>Volatile Organic Content:</b> <10 gpl
<b>Boiling Point:</b> 288 °C; >550 deg F	<b>Molecular Weight:</b> NA
<b>Melting Point:</b> NA	<b>Average Carbon Number:</b> NA
<b>Density:</b> 9.5 lbs/gal	
<b>Pour Point:</b> NA	
<b>Solubility in Water:</b> Reacts with water	
<b>Octanol / Water Coefficient:</b> NA	

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## 10. STABILITY AND REACTIVITY INFORMATION

**Chemical Stability:** Stable

**Conditions to Avoid:** Contact with water, alcohols, amines, metal compounds. Avoid T above 320 deg F (160 deg C).

**Incompatible Materials to Avoid:** Avoid water, alcohols, amines, metal compounds, zinc, aluminum, brass, copper, and strong acids and oxidizers. Gas generation can create pressure.

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## 11. TOXICOLOGICAL INFORMATION (will only print available data)

*For MDI:*

**Primary Eye Irritation:** Yes

**Primary Skin Irritation:** Yes. The LD50 for skin absorption in rabbits is >2000 mg/kg. Prolonged contact may cause moderate skin irritation with local redness. Material may stick to skin causing skin irritation leading to allergic reaction. Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization..

**Acute Dermal Toxicity:** NA

**Sub acute Dermal Toxicity:** Repeated or prolonged contact may cause skin sensitization. Components of this product can cause liver damage in animals.

**Dermal Sensitization:** Yes

**Inhalation Toxicity:** Yes

**Inhalation Sensitization:** Yes

**Oral Toxicity:** Yes

**Mutagenicity:** Genetic toxicity data on MDI are inconclusive. Animal genetic toxicity studies were predominantly negative.

**Carcinogenicity** MDI is a suspected carcinogen. Lung tumors have been observed in lab. animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m<sup>3</sup>) for their lifetime, Tumors occurred concurrently with respiratory irritation and lung injury.

**Reproductive Toxicity:** Repeated dermal application to rats resulted in maternal toxicity and decreased fetal body weights and survival. Malformations were also observed. Evidence from skin cleansing studies suggests that toxic effects are unlikely in humans if good personal hygiene practices are followed.

**Teratogenicity:** NA

**Immunotoxicity:** NA

**Neurotoxicity:** NA

**No other toxicological information available**

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## 12. ECOLOGICAL INFORMATION

Material is practically non-toxic to aquatic organism on an acute basis (LC50 or EC50 >100 mg/L in the most sensitive species treated).

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## 13. DISPOSAL INFORMATION

**Regulatory Information:** Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal.

**Waste Disposal Methods:** Recover free liquid. Absorb residue and dispose of according to local, state and Federal EPA regulation. Empty container: may contain explosive vapors. Do Not cut, puncture or weld on or nearby.

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## 14. TRANSPORTATION INFORMATION

Not Classified by DOT

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## 15. Regulatory Information

*For MDI:*

**U.S. TSCA Inventory:** All components of this material are on the US TSCA Inventory or exempt from listing on the TSCA Inventory.

**Sara Section 313:** This product contains the following Sara, Title III, Section 313 Chemicals:

<u>Chemical</u>	<u>CAS Number</u>	<u>Percent in Product</u>
Methylene bis(phenylisocyanate)	000101-68-8	40 - 60

### SARA 311 / 312 Categories

**Acute:**   X   **Chronic:**   X   **Fire:**   X   **Pressure:**   X   **Reactive:**   X  

**Regulated:**

**State Right to Know:  
Pennsylvania**

<u>Chemical</u>	<u>CAS Number</u>	<u>LIST</u>
Methylene bis(phenylisocyanate)	000101-68-8	PA1 PA3

**OSHA Hazard Communication Standard:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**CERCLA:** This product contains the following substance listed as "Hazardous Substance."

<u>Chemical</u>	<u>CAS Number</u>	<u>RQ</u>
Methylene bis(phenylisocyanate)	000101-68-8	5000 lbs

**CANADIAN REGULATIONS:** WHIMS Classification for this product is

- D2A - respiratory tract sensitizer
- D2B - eye or skin irritant
- D2B - skin sensitizer

**HAZARDOUS PRODUCT ACT INFORMATION:** This product contains the following ingredients which are controlled products on the Ingredient Disclosure List.

**CEPA:** All substance in this product are listed on the Canadian Domestic Substance List or are not required to be listed.

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**16. OTHER INFORMATION**

**Health and Environmental Label Language**

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).

**MSDS Revisions:** Changed to 16 part MSDS

**Previous Version Date:** 06/01/05

**Prepared By:** R&D Department

**Date:** 07/01/08

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