

**Section 1: Company and Product Identification**

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**1.1. Product Identification**

**Product Name:** MCO™ Outerwrap 110  
**Product Code(s):**

**1.2. Product use(s) and applications advised against**

**Product use(s):** Anticorrosion wrap tape for piping systems.  
**Applications advised against:** Consult technical data sheet

**1.3. Details of the Supplier of the Safety Data Sheet**

**Company:** Trenton Corp.  
7700 Jackson Road  
Ann Arbor, MI 48103  
PH: 734-424-3600

**Emergency Response:** CHEMTREC (24 hrs): 800-424-9300

**Section 2: Hazards Identification**

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**2.1 Classification of the Substance or Mixture**

**Hazard Category:** Skin corrosion/irritation Cat 2  
Serious eye damage/eye irritation Cat 2  
Specific target organ tox, single exp. Cat 3 (resp irrit)  
Sensitization, skin Cat 1  
Sensitization, resp. Cat 1  
Carcinogenicity Cat 2  
Specific target organ tox, repeat exp. Cat 2

**2.2 GHS Label Elements**

**Signal Word:** Danger

**Hazard Pictograms:**

|   |   |  |   |
|---|---|--|---|
| <small>GHS07</small><br> | <small>GHS09</small><br> | <small>BLANK</small><br> | <small>BLANK</small><br> |
|---|---|--|---|

**Hazard Statements:** H315: Causes skin irritation  
H319: Causes serious eye irritation  
H335: May cause respiratory irritation  
H317: May cause an allergic skin reaction  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H351: Suspected of causing cancer  
H373: May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements:** P201: Obtain special instructions before use  
P202: Do not handle until all safety precautions have been read and understood  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
P271: Use only outdoors or in a well-ventilated area  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P302+352: IF ON SKIN: Wash with soap and water  
P304+312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P501: Dispose of contents/container in accordance with local/regional/national/international rules.

### 2.3 Other Hazards

Not applicable, none known.

## Section 3: Composition / Information on Ingredients

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### 3.1 Hazardous Components

| Hazardous substance (name)  | Hazard Category   | CAS#       | Weight % |
|---|---|------------|----------|
| isocyanates, reaction product of polyol with methylenediphenyl diisocyanate | Skin Irrit 2, Skin Sens 1, Eye Irrit 2, Acute Tox 4 (inh), Resp Sens 1, STOT SE 3 (resp irrit), Carc 2, STOT RE 2 | 53862-89-8 | 40-60    |
| diphenylmethane 4,4'-diisocyanate   | Skin Irrit 2, Skin Sens 1, Eye Irrit 2, Acute Tox 4 (inh), Resp Sens 1, STOT SE 3 (resp irrit), Carc 2, STOT RE 2 | 101-68-8   | 10-25    |
| methylenediphenyldiisocyanate, isomers and homologues                       | Skin Irrit 2, Skin Sens 1, Eye Irrit 2, Acute Tox 4 (inh), Resp Sens 1, STOT SE 3 (resp irrit), Carc 2, STOT RE 2 | 9016-87-9  | <10      |
| diphenylmethane-2,4'-diisocyanate   | Skin Irrit 2, Skin Sens 1, Eye Irrit 2, Acute Tox 4 (inh), Resp Sens 1, STOT SE 3 (resp irrit), Carc 2, STOT RE 2 | 5873-54-1  | <10      |
| Mineral spirits (stoddard solvent)  | See Section 8   | 8052-41-3  | <1       |
| carbon black  | See Section 8   | 1333-86-4  | <1       |

### 3.2 Other Information

## Section 4: First Aid Measures

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### 4.1 Description of First Aid Measures

|                      |   |
|----------------------|---|
| <b>General Info:</b> | Product may give off vapors in affecting the inhalation route. Ensure proper ventilation during application / curing. Seek medical treatment if any excessive exposures result in symptoms. |
| <b>If ingested:</b>  | Rinse mouth. Seek medical attention if symptoms develop. Do not induce vomiting.  |
| <b>If inhaled:</b>   | Remove to fresh air. Obtain medical attention if respiratory symptoms or other symptoms develop.  |
| <b>Eye contact:</b>  | Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.                         |
| <b>Skin contact:</b> | Rinse with soap and water thoroughly. Get medical advice if irritation develops or persists. A PEG-400 oil, or corn oil may be an effective skin cleanser.                                  |

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

|                                   |   |
|-----------------------------------|---|
| <b>Notable Exposure symptoms:</b> | An allergic or asthmatic response (sensitization reaction), may occur in some exposed individuals. If these symptoms occur, seek medical attention immediately. |
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## Section 5: Fire Fighting Measures

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### 5.1 Extinguishing Media

Carbon dioxide (CO<sub>2</sub>), dry chemical, foam.

### 5.2 Special Hazards Arising from Mixture

Product will sustain burning. Constituents associated with burning / combustion are to be considered toxic.

### 5.3 Advice for Firefighters / Protective equipment

Firefighters should wear self-contained breathing apparatus (SCBA) and full protective equipment. Direct water spray may spread fire.

## Section 6: Accidental Release Measures

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- 6.1 Personal precautions, protective equipment and procedures** Product is a solid / tape wrap. Clean up mechanically, manually. Wear appropriate protective equipment and clothing during clean-up operations. Avoid breathing vapors. Ventilate area if easy to do so.
- 6.2 Environmental Precautions** No special precautions.
- 6.3 Methods and Materials for Containment and Cleanup** Solid material can be collected and gathered mechanically.
- 6.4 References to Other Sections** For personal protection, see section 8 of the SDS. For disposal information, Section 13.

## Section 7: Handling and Storage

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- 7.1 Precautions for Safe Handling** Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.
- 7.2 Recommendations for Storage:** Store in cool area. Store away from strong acids or oxidizing agents. Refer to Section 10.

## Section 8: Exposure Control / Personal Protection

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### 8.1 Components with Exposure Control Limits

| Substances with Exposure Limit  | CAS#      | ACGIH-TLV                    | OSHA-PEL         |
|---|-----------|------------------------------|------------------|
| diphenylmethane 4,4'-diisocyanate   | 101-68-8  | 0.005 ppm (8-hour)           | 0.2 mg/m3 (Ceil) |
| carbon black**  | 1333-86-4 | 3 mg/m3 (inhalable fraction) | 3.5 mg/m3        |
| mineral spirits*  | 8052-41-3 | 100 ppm                      | 500 ppm          |
| *May contain low levels of cumene (OSHA PEL 50 ppm), ethylbenzene (OSHA PEL 100 ppm). |           |                              |                  |
| **Material is bound in product and not respirable during normal use.                  |           |                              |                  |

### 8.2 Exposure Controls

**Engineering Controls:** Ensure proper ventilation in enclosed spaces.

**Controls:**

**Work Clothing:** Protective work clothing which covers skin and prevents exposures.

**Eye/face protection:** Safety glasses.

**Skin Protection:** Wear chemical resistant gloves.

**Respiratory Protection:** Utilize organic vapor respirator if airborne levels are not maintained below exposure limits, or if ventilation is inadequate.

**Environmental:** No special considerations. Avoid release of material to surface waters.

**Exposure Controls:**

**Additional Information:** Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product. Cutting or grinding of the product may release substances which require monitoring (see chart above).

## Section 9: Physical and Chemical Properties

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### 9.1 Physical/Chemical Properties

|   |                                     |  |
|---|-------------------------------------|--|
| <b>State:</b> Solid, Tape               | <b>Melting Point:</b> Not avail     | <b>Freezing Point:</b> Not avail             |
| <b>Color:</b> Black                     | <b>Boiling Point/Range:</b> ~150C   | <b>pH:</b> Not avail                         |
| <b>Sp. Grav.:</b> ~1.14                 | <b>Odor:</b> Slight musty           | <b>Water Solubility:</b> NA - water reactive |
| <b>Evaporation rate:</b> Not avail      | <b>Flash Point:</b> 113C (235F)     | <b>Part. Coeff (n-oct/water):</b> Not avail  |
| <b>Upper Flam Limits:</b> Not avail     | <b>Lower Flam Limits:</b> Not avail | <b>Vapor Pressure:</b> Not avail             |
| <b>VOC Content (lbs/gal):</b> Not avail | <b>Viscosity:</b> Not avail         | <b>Autoignition Temp:</b> Not avail          |

**9.2 Other Information** No further information.

## Section 10: Stability and Reactivity

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|--|--|
| <b>10.1 Reactivity</b>                         | This product will react with water / moisture, producing CO <sub>2</sub> gas. Exothermic reaction with materials containing active hydrogen groups.        |
| <b>10.2 Chemical Stability</b>                 | Product is stable at room temperature. Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines, and metal compounds. |
| <b>10.3 Possibility of Hazardous Reactions</b> | Hazardous reactions or instability may occur under certain conditions of use.  |
| <b>10.4 Conditions to Avoid</b>                | Avoid extreme temperatures, flame, oxidizers, and acids / bases.   |
| <b>10.5 Incompatible Materials</b>             | Water, alcohols, amines, strong acids/bases.   |
| <b>10.6 Hazardous Decomposition Products</b>   | Carbon monoxide, carbon dioxide, nitrogen oxides   |

## Section 11: Toxicological Information

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### 11.1 Information on Toxicological Effects

**General Information:** Product has not been tested. Potentially irritating or sensitizing to respiratory system.

**Acute Toxicity (Oral):** Not tested. Not expected to pose an acute oral toxicity hazard.

**Acute Toxicity (Dermal):** Skin contact is not expected to pose a dermal toxicity hazard.

**Acute Toxicity (Inhalation):** No further information.

**Skin Corrosion / Irritation:** Skin irritant

**Eye Corrosion / Eye / mucous membrane irritant.**

**Irritation:**

**Sensitization:** Respiratory and skin sensitization reactions possible.

**Carcinogenicity /** Product contains ingredients which are suspect carcinogens. Diphenylmethane 4,4'-diisocyanate,

**Mutagenicity:** and analogous materials have been suspected of causing carcinogenic effects in laboratory animal (GHS Cat 2).

#### Toxicological Information (contained substances)

| Hazardous substance (name)                            | LD50 Oral         | LD50 Dermal          | LC50 Inh          | Irritancy:        |
|---|-------------------|----------------------|-------------------|-------------------|
| diphenylmethane 4,4'-diisocyanate                     | >5000 mg/kg (rat) | >5000 mg/kg (rabbit) | -                 | Eye / Skin / Resp |
| methylenediphenyldiisocyanate, isomers and homologues | >5000 mg/kg (rat) | -                    | 310 mg/m3 (rat)   | Eye / Skin / Resp |
| mineral spirits                                       | >5000 mg/kg (rat) | >3000 mg/kg (rabbit) | >5000 mg/m3 (rat) | NA                |

### Section 12: Ecological Information

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- 12.1 Toxicity** Product has not been tested. Product is not expected to have significant deleterious effects on aquatic organisms, due to the nature of MDI and its interaction with water.
- 12.2 Persistence and Degradability** No specific data available. Product is not expected to rapidly degrade.
- 12.3 Bioaccumulation Potential** No specific data available. Product is not expected to bioaccumulate in biological tissue.
- 12.4 Mobility in Soil** No further information available.
- 12.5 Results of PBT and vPvB Assessment** Assessment not carried out. Product does not contain any PBT / vPvB constituents.
- 12.6 Other Adverse Effects** No further information available.

### Section 13: Disposal Information

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#### 13.1 Waste Treatment Methods

**Product disposal:** Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor.

**Container disposal:** Packaging of product may contain small amounts of residual product which can be discarded.

**Other considerations:** No further information.

### Section 14: Transport Information

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**DOT:** Not regulated

**IMO/IMDG:** Not regulated

**IATA:** Not regulated

**ADR:** Not regulated

**OTHER:** No further information

### Section 15: Regulatory Information

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**TSCA:** All components listed on the TSCA 8(b) inventory.

**CERCLA RQ:** Not applicable

**SARA 311/312:** Immediate (acute), delayed (chronic) health hazards.

**SARA 313** Isocyanate compound (N120), ~25%

**California Prop 65** Product contains California Proposition 65 substances in small quantities (carbon black, cumene, Substances: ethylbenzene)

**Canadian DSL:** All substances in product are listed on the DSL.

**WHMIS:** See Section 3 for disclosure substances, if applicable.

**Section 16: Other Information**

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**SDS Author:** A.Hahn, CCS LLC

**Version Date:** 10/20/2016

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