

Section 1: Company and Product Identification

1.1. Product Identification:

Product Name: MCO™ Outerwrap
Product Code(s): MC1V04-04, MC1V04-12, MC1V04-27, MC1V06-27, MC1V09-49

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

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: GHS07 GHS08 BLANK BLANK

 

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

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	30-50
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	10-30
petroleum hydrocarbon	Asp Tox 1, Carc 1B	64742-95-6	<5
mineral spirits (stoddard solvent)	See Section 8	8052-41-3	<5
carbon black	See Section 8	1333-86-4	<3
magnesium silicate (talc)	See Section 8	14087-96-6	<3

3.2 Other Information

Section 4: First Aid Measures

4.1 Description of First Aid Measures

General Info:	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.
If ingested:	Rinse mouth. Seek medical attention if symptoms develop. Do not induce vomiting.
If inhaled:	Remove to fresh air. Obtain medical attention if respiratory symptoms or other symptoms develop.
Eye contact:	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.
Skin contact:	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

Notable Exposure symptoms:	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

5.1 Extinguishing Media	Carbon dioxide (CO2), 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

- 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

- 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

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/m ³ (Ceil)
carbon black**	1333-86-4	3 mg/m ³ (inhalable fraction)	3.5 mg/m ³
mineral spirits*	8052-41-3	100 ppm	500 ppm
petroleum hydrocarbon*	64742-95-6	5 mg/m ³ (mist)	5 mg/m ³ (mist)
magnesium silicate (talc)**	14087-96-6	2 mg/m ³	20 mppcf

*May contain low levels of cumene (OSHA PEL 50 ppm), ethylbenzene (OSHA PEL 100 ppm), xylene (OSHA PEL 100 ppm), and/or 1,2,4-trimethylbenzene (ACGIH 25 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 Utilize organic vapor respirator if airborne levels are not maintained below exposure limits, or if
Protection: ventilation is inadequate.

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

Exposure Controls:

Additional Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash

Information: 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

9.1 Physical/Chemical Properties

State: Solid, Tape	Melting Point: Not avail	Freezing Point: Not avail
Color: Black	Boiling Point/Range: ~150C	pH: Not avail
Sp. Grav.: ~1.14	Odor: Slight musty	Water Solubility: NA - water reactive
Evaporation rate: Not avail	Flash Point: >42C (>100F)	Part. Coeff (n-octanol/water): Not avail
Upper Flam Limits: Not avail	Lower Flam Limits: Not avail	Vapor Pressure: Not avail
VOC Content (lbs/gal): Not avail	Viscosity: Not avail	Autoignition Temp: Not avail

9.2 Other Information No further information.

Section 10: Stability and Reactivity

- 10.1 Reactivity** This product will react with water / moisture, producing CO2 gas. Exothermic reaction with materials containing active hydrogen groups.
- 10.2 Chemical Stability** Product is stable at room temperature. Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines, and metal compounds.
- 10.3 Possibility of Hazardous Reactions** Hazardous reactions or instability may occur under certain conditions of use.
- 10.4 Conditions to Avoid** Avoid extreme temperatures, flame, oxidizers, and acids / bases.
- 10.5 Incompatible Materials** Water, alcohols, amines, strong acids/bases.
- 10.6 Hazardous Decomposition Products** Carbon monoxide, carbon dioxide, nitrogen oxides

Section 11: Toxicological Information

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 / Skin 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 analagous 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

- 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.
- 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

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

DOT: Not regulated

IMO/IMDG: Not regulated

IATA: Not regulated

ADR: Not regulated

OTHER: No further information

Section 15: Regulatory Information

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. Product is classified according to WHMIS 2015 (see Section 2).

Section 16: Other Information

SDS Author: A.Hahn, CCS LLC

Version Date: 5/31/2015

The provider of this SDS urges the buyer or user to study it carefully and consult with appropriate expertise, as necessary to become aware of and understand the data contained herein. This information is provided in good faith and is believed to be accurate as of the effective date, or version date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer or user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. It is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Information regarding the exact chemical identity or concentration of certain substances may be reserved as a trade secret as per 29 CFR 1910.1200(i).