

Section 1: Company and Product Identification

1.1. Product Identification:

Product Name: MCO® Outerwrap 110
Product Code(s): MCO110-04-04, MCO110-04-12, MCO110-04-27, MCO110-06-27, MCO110-09-40

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

Product use(s): Mechanical protection
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
Specific target organ tox, repeat exp. Cat 2
Acute tox, inh. Cat 4

2.2 GHS Label Elements

Signal Word: Danger
Hazard Pictograms: GHS07 GHS08



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
H373: May cause damage to organs through prolonged or repeated exposure
H332: Harmful if inhaled

Precautionary Statements: P203: Obtain, read and follow until all safety precautions have been read and understood
P233: Keep container tightly closed
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after handling
P265: Do not touch eyes
P271: Use only outdoors or in a well-ventilated area
P272: Contaminated work clothing should not be allowed out of the workplace
P280: Wear protective gloves/protective clothing/eye protection/face protection
P284: In case of inadequate ventilation, wear respiratory protection

P304+340, 342+316: **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get emergency help immediately.

P302+352, 333+317, 362+364: **IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get emergency medical help.

P305+351+338, 337+317: **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 emergency medical help.

P318: If exposed or concerned, get medical advice.

P403+233, 405: Store in a well ventilated place. Keep container tightly closed. Store locked up.

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)	CAS#	Weight %	GHS Classification
isocyanates, reaction product of polyol with	53862-89-8	10-20	Skin Irrit 2 (H315), Skin Sens 1, Eye Irrit 2
diphenylmethane 4,4'-diisocyanate	101-68-8	5-12	Skin Irrit 2 (H315), Skin Sens 1, Eye Irrit 2
methylenediphenyldiisocyanate, isomers	9016-87-9	2-8	Skin Irrit 2 (H315), Skin Sens 1, Eye Irrit 2
diphenylmethane-2,4'-diisocyanate	5873-54-1	2-8	Skin Irrit 2 (H315), Skin Sens 1, Eye Irrit 2
Fiber Glass fabric heat cleaned and silane treated	65997-17-3	50-75	Not Classified
carbon black	1333-86-4	<2	See Section 8

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).

3.2 Other Information

None

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:	Not an expected route of exposure for product.
If inhaled:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get emergency help immediately.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get emergency medical help.
Skin contact:	Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get emergency medical help. 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:	Contains isocyanates. 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 Limits	CAS#		ACGIH-TLV	NIOSH-REL	OSHA-PEL
diphenylmethane 4,4'-diisocyanate	101-68-8	TWA	0.005 ppm	0.005 ppm (0.05 mg/m3)	--
		C	--	0.02 ppm (0.2 mg/m3)	0.2 mg/m3
Diphenylmethane diisocyanate, polymeric	9016-87-9	TWA	--	0.005 ppm (0.05 mg/m3)	--
		C	--	0.02 ppm (0.2 mg/m3)	0.2 mg/m3
2,4'-methylenediphenyl diisocyanate	5873-54-1	TWA	--	0.005 ppm (0.05 mg/m3)	--
		C	--	0.02 ppm (0.2 mg/m3)	0.2 mg/m3
Fiberglass*	65997-17-3	TWA	5 mg/m3		15 mg/m3 (Tot) 5 mg/m3 (Resp)
carbon black*	1333-86-4	TWA	3 mg/m3 (inhalable)		3.5 mg/m3

*Material is bound in resin matrix 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: Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection shall be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following materials are recommended:

Material	Thickness (mm)	Breakthrough Time
Butyl Rubber	0.5	=> 8 hrs
Nitrile Rubber	0.35	=> 8 hrs

The glove data are based on the substance driving dermal toxicity and conditions present at the time of testing. Breakthrough time may be altered when glove is subjected to use conditions that place additional stress on glove.

Gloves should be changed a minimum of every 30 minutes

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

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

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

9.1 Physical/Chemical Properties

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

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):	Product has not been 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):	Product has not been tested. Calculated ATE = 1.05 - Acute Inhalation Toxicity, Category 4
Skin Corrosion / Irritation:	Skin irritant
Eye Corrosion / Irritation:	Eye / mucous membrane irritant.
Sensitization:	Persons already sensitized to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact with this product.
Carcinogenicity / Mutagenicity:	Contains no materials >0.1% that have been classified as to carcinogenicity by IARC, NTP or OSHA, with the exception of Carbon Black (IARC Class 2B). However, since carbon black particulates are bound in a resin matrix, they are not available for inhalation and therefore not classifiable as to carcinogenicity.

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LC50 Inh	Irritancy:
isocyanates, reaction product of polyol with methylenediphenyl diisocyanate	>10000 mg/kg (rat)	>9400 mg/kg (rabbit)	0.49 mg/l (4h, rat)	Eye / Skin / Resp
diphenylmethane 4,4'-diisocyanate	>2000 mg/kg (rat)	>9400 mg/kg (rabbit)	431.18 mg/m3 (4h, rat)	Eye / Skin / Resp
methylenediphenyldiisocyanate, isomers and homologues	>10000 mg/kg (rat)	>9400 mg/kg (rabbit)	431.18 mg/m3 (4h, rat)	Eye / Skin / Resp
diphenylmethane-2,4'-diisocyanate	>10000 mg/kg (rat)	>9400 mg/kg (rabbit)	431.18 mg/m3 (4h, rat)	Eye / Skin / Resp
Fiber Glass fabric heat cleaned and silane treated	ND	ND	ND	ND
carbon black	>8000 mg/kg (rat)	ND	ND	ND

11.2 Information on Other Hazards

None known.

Section 12: Ecological Information

12.1 Toxicity	Product has not been tested, however, once cured, it is inert. Component data provided when available for informational purposes.
Acute Aquatic Ecotoxicity:	Not Classified

Ingredient	CAS #	Test/Results
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isocyanates, reaction product of polyol with methylenediphenyl diisocyanate	53862-89-8	Aquatic Toxicity Fish: LC50 >1000 mg/L (96-h), Brachydanio rerio (zebrafish), static - freshwater, OECD Guideline 203 Aquatic Toxicity Invertebrates: EC50 >1000 mg/L (24-h), Daphnia magna (Water flea), static - freshwater, OECD Guideline 202
diphenylmethane 4,4'-diisocyanate	101-68-8	Aquatic Toxicity Fish: LC50 >100 mg/L (96-h), Brachydanio rerio (zebrafish), static - freshwater, OECD Guideline 203 Aquatic Toxicity Invertebrates: EL50 >9 mg/L (48-h), Daphnia magna (Water flea), semi-static - freshwater, OECD Guideline 202 Aquatic Algae/Aquatic plants: EC50 >100 mg/L (72-h), Desmodesmus subspicatus (green algae), static - freshwater, OECD Guideline 201
methylenediphenyldiisocyanate, isomers and homologues	9016-87-9	Aquatic Toxicity Fish: LC50 >1000 mg/L (96-h), Brachydanio rerio (zebrafish), static - freshwater, OECD Guideline 203 Aquatic Toxicity Invertebrates: EL50 >31.7 mg/L (48-h), Daphnia magna (Water flea), semi-static - freshwater, OECD Guideline 202 Aquatic Algae/Aquatic plants: EC50 >100 mg/L (72-h), Desmodesmus subspicatus (green algae), static - freshwater, OECD Guideline 201
diphenylmethane 2,4'-diisocyanate	5873-54-1	Aquatic Toxicity Fish: LL50 >100 mg/L (96-h), Brachydanio rerio (zebrafish), static - freshwater, OECD Guideline 203 Aquatic Toxicity Invertebrates: EL50 >3.7 mg/L (48-h), Daphnia magna (Water flea), semi-static - freshwater, OECD Guideline 202 Aquatic Algae/Aquatic plants: EL10 >100 mg/L (72-h), Desmodesmus subspicatus (green algae), static - freshwater, OECD Guideline 201
Carbon black	1333-86-4	Aquatic Toxicity Fish: LC0 >1000 mg/L (96-h), Brachydanio rerio (zebrafish), static - freshwater, OECD Guideline 203 Aquatic Toxicity Invertebrates: EC50 >5600mg/L (24-h), Daphnia magna (Water flea), semi-static - freshwater, OECD Guideline 202 Aquatic Algae/Aquatic plants: EC50 >10,000 mg/L (NOEC) (72-h), Scenedesmus subspicatus (green algae), static - freshwater, OECD Guideline 201

Chronic Aquatic Ecotoxicity:

Does not meet classification criteria

Ingredient	CAS #	Test/Results
isocyanates, reaction product of polyol with methylenediphenyl diisocyanate	53862-89-8	Aquatic Toxicity Invertebrates: NOEC >=10 mg/L (21-d), Daphnia magna (Water flea), static - freshwater, OECD Guideline 211
diphenylmethane 4,4'-diisocyanate	101-68-8	Aquatic Toxicity Invertebrates: NOEC >=10 mg/L (21-d), Daphnia magna (Water flea), static - freshwater, OECD Guideline 211
methylenediphenyldiisocyanate, isomers and homologues	9016-87-9	Aquatic Toxicity Invertebrates: NOEC >=10 mg/L (21-d), Daphnia magna (Water flea), static - freshwater, OECD Guideline 211
diphenylmethane 2,4'-diisocyanate	5873-54-1	Aquatic Toxicity Invertebrates: NOEC >=10 mg/L (21-d), Daphnia magna (Water flea), static - freshwater, OECD Guideline 211

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 Endocrine Disrupting Properties

Does not contain any endocrine disrupting substances.

12.7 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 Substances: Carbon black as airborne, unbound particles of respirable size, since carbon black is bound in a resin matrix and particulates are not available for inhalation, not regulated under Proposition 65.
Canadian DSL: All substances in product are listed on the DSL.
WHMIS: See Section 3 for disclosure substances, if applicable.

Section 16: Other Information

SDS Author: Trenton Corporation **Version Date:** 2025-11-19

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