SECTION 1 – IDENTITY and COMPANY IDENTIFICATION

Product Name - MC Outer Wrap

Product Use - Moisture Cured Outer Wrap Pipe Coating

Company:

The Trenton Corporation
7700 Jackson Road
Ann Arbor, MI 48103
734-424-3600
734-426-5882 (fax)

Emergency No. 1-800-858-2828
CHEMTREC No. 1-800-4249300

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>CAS NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric Diphenylmethane</td>
<td>22</td>
<td>Not Listed</td>
<td>9016-87-9</td>
</tr>
<tr>
<td>Diisocyanate (polymeric MDI)</td>
<td>22</td>
<td>0.005</td>
<td>101-68-8</td>
</tr>
<tr>
<td>Contains:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4’-Diphenylmethane isocyanate (4,4’ MDI)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrene Acrylate-Polymer</td>
<td>50 ppm</td>
<td>52722-05-1</td>
<td></td>
</tr>
<tr>
<td>1,2,4 Trimethylbenzene</td>
<td>25 ppm</td>
<td>95-63-6</td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td>100 ppm</td>
<td>1330-20-7</td>
<td></td>
</tr>
<tr>
<td>Cumene</td>
<td>50 ppm</td>
<td>98-82-8</td>
<td></td>
</tr>
<tr>
<td>Styrene Acrylate-Polymer</td>
<td>21</td>
<td>ND</td>
<td>25085-34-1</td>
</tr>
<tr>
<td>AR 100 Solvent</td>
<td>12</td>
<td>50 ppm</td>
<td>64742-95-6</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary and non-hazardous

This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 3 - HAZARDS IDENTIFICATION

Health Hazards: Irritating to eyes, respiratory system and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MC Outer Wrap may develop in sensitized persons. Sensitized persons should not be exposed to unreacted MC Outer Wrap.

Physical Hazards: Minimal

Appearance: Black in tape form.

Odor: Musty.
SECTION 4 – FIRST AID MEASURES

General: In case of overexposure where you feel unwell, seek medical advice IMMEDIATELY.

Inhalation: Remove person from exposure, keep warm and at rest. Obtain medical attention. If breathing is labored, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing.

Skin Contact: With unreacted product, remove any contaminated clothing. Immediately wipe off area with dry cloth. Wash with soap and water. Some organic materials such as corn oil or propylene glycol are effective in decontaminating MC Outer Wrap from the skin when applied immediately. If redness or a burning sensation develops and persists, obtain medical advice.

Eye Contact: Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain Medical attention IMMEDIATELY.

Ingestion: Do NOT induce vomiting. If person is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

Note to Physicians: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

SECTION 5 – FIRE-FIGHTING MEASURES

Fire and Explosion Hazards: Combustible components may become volatile. Vapors may settle in low areas or travel some distance along the ground.

Extinguishing Media: Carbon Dioxide, Dry Chemical or Foam.

Fire Fighting Procedures: As appropriate for surrounding materials.

Fire Fighting Protective Equipment: Use self-contained breathing apparatus and full protective clothing (Bunker gear).

Flash Point: >250°F / 121°C
Flammable Limits (Lower): 0.9
Flammable Limits (Upper): 6.0
Auto Ignition Temperature: 464°F / 240°C
Rate of Burning: Not available
Explosive Power: Can form combustible mixtures at temperatures at or above flash point.
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: Use proper grounding.
Combustion Products: carbon monoxide, carbon dioxide, nitrogen oxide

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Product reacts with moisture when exposed to atmospheric conditions and becomes inert and non-hazardous. Afterwards, product can be scraped up.
SECTION 7 – HANDLING AND STORAGE

Handling: Use gloves and avoid personal contact with the unreacted product. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. Avoid direct breathing of vapors (See Section 7)

Storage Requirements: Store indoors in a well ventilated area away from heat.

Storage Temperature: Ideal storage temperature is 60-70°F / 16-21°C

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PREVENTIVE MEASURES: Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices.

Engineering controls: Where needed, use local exhaust ventilation to maintain airborne concentrations below the TLV (Threshold Limit Value). Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Personal Protective Equipment:

Eye Protection: Safety Goggles.

Skin Protection: Use Gloves - neoprene, nitrile rubber, butyl rubber or disposable latex gloves. Limit skin exposure with adequate protective clothing.

Respiratory Protection: When product is used in poorly ventilated areas or in a confined space, use an air purifying respirator equipped with organic vapor cartridge and a HEPA (P100) particulate filter in accordance with the OSHA respiratory protection standard (29 C.F.R. 1910.134).

EXPOSURE GUIDELINES: Persons with respiratory problems including asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or skin allergies need to be medically evaluated for their suitability of working with this product. Once a person is diagnosed as sensitized, no further exposure to this product should be permitted.

HAZARDOUS INGREDIENTS:

4,4’-Diphenylmethane Diisocyanate:

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value (Concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV</td>
<td>0.05 mg/M³ (8-hours/week)</td>
</tr>
<tr>
<td>OSHA PEL CEILING</td>
<td>0.20 mg/M³</td>
</tr>
<tr>
<td>NIOSH REL/TWA</td>
<td>0.05 mg/M³ (10-hour, 40 hours/week)</td>
</tr>
<tr>
<td>NIOSH REL/CEILING</td>
<td>0.20 mg/M³ (10-minute)</td>
</tr>
</tbody>
</table>

NOTE: The Occupational Exposure Limits listed for isocyanates do not apply to previously sensitized individuals.

Trimethyl Benzene

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value (Concentration)</th>
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<tbody>
<tr>
<td>ACGIH</td>
<td>123 mg/M³ (25 ppm of a TWA – 8-hour time-weighted averages)</td>
</tr>
<tr>
<td>OSHA</td>
<td>125 mg/M³ (25 ppm of a TWA – 8-hour time-weighted averages)</td>
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</table>

Xylene

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value (Concentration)</th>
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<tbody>
<tr>
<td>ACGIH</td>
<td>434 mg/M³ (100 ppm of a TWA – 8-hour time-weighted averages)</td>
</tr>
<tr>
<td>OSHA</td>
<td>435 mg/M³ (100 ppm of a TWA – 8-hour time-weighted averages)</td>
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</table>
 SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Alternate Name(s): Polymeric MDI, Styrene Acrylate-Polymer, and AR100 Solvent mixture.
Chemical Name: Not applicable (mixture).
Chemical Family: Diisocyanate and other polymers.
Molecular Formula: Not applicable (mixture).
Appearance: Black in fabric roll form.
Odor: Musty.
Odor Threshold: 4.0 mg/M³ (4,4’-Dephenylmethane Diisocyanate) ~ 400 ppb.
pH: Not applicable.
Flash Point: >108°F / >42°C.
Vapor Pressure (mmHg at 68°F / 20°C): 2.09 approximate.
Vapor Density (Air=1): 8.5 approximate.
Boiling Point: (760 mm HG) 313°-355°F / 156°C-179°C.
Melting Point: Not available.
Solubility (Water): (Reacts with water)
Solubility (Other): Soluble in most organic solvents.
Specific Gravity: 1.14
Evaporation Rate: (n-Bu Acetate=1): 0.3

 SECTION 10 – STABILITY AND REACTIVITY

Hazardous decomposition Products: Thermal decomposition in the presence of air yield carbon monoxide and/or carbon dioxide.
Chemical stability: Stable at room temperature.
Conditions to Avoid: Avoid high temperatures. Avoid freezing.
Incompatibility with other Substances: This product is incompatible with strong oxidizing agents, strong acids or bases and selected amines.
Hazardous Polymerization: Polymerization may occur at elevated temperatures in the presence of alkalies, tertiary amines and metal compounds.

 SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

Inhalation: This product is a respiratory irritant and potential respiratory sensitizer. Inhalation of unreacted vapor above the occupational exposure limit could cause respiratory sensitization and lung injury. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing and/or flu-like symptoms. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of this product may develop in sensitized persons.

Skin Contact: Unreacted MC Outer Wrap is a moderate irritant. Repeated and/or prolonged contact may cause skin sensitization. There is limited evidence from animal studies that skin contact may play a role in respiratory sensitization. These results emphasize the need for protective clothing including gloves to be worn at all times when handling unreacted MC Outer Wrap.

Eye Contact: The unreacted saturant material or vapor will irritate eyes following contact.
Ingestion: Do not induce vomiting. Seek immediate medical attention.

Chronic Effects: According to a study with a group of rats, there is increased incidence of lung tumors associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

Carcinogenicity: The ingredients of this product are not classified as carcinogenic by ACGIH or IRAC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenicity: There is no substantial evidence of mutagenic potential.

Reproductive Effects: No adverse reproductive effects are anticipated.

Teratogenicity and Fetotoxicity: Based on the polymeric and diisocyanate components of this product, no birth defects were seen in two independent rat studies. Fetotoxicity was observed at doses that were extremely toxic (including lethal) to the mother. Fetotoxicity was not observed at doses that were not maternally toxic. The doses used in these studies were maximal, respirable concentrations well in excess of the defined occupational limits.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate and Distribution: It is unlikely that significant environmental exposure in air or water will arise, based on the use of this product.

Persistence and Degradation: Immiscible with water, but will react with water to produce inert and a non-biodegradable solid.

Toxicity: with the Polymeric MDI component of MC Outer Wrap:
  LC50 (Zebra fish) >1000 mg/l (At the highest level tested of 1000 mg/l, there were no deaths.)
  EC50 (Daphnia magna) (24 hour) > 1000 mg/l
  EC50 (E. Coli) > 100 mg/l

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state, provincial or national regulations. This material is not a hazardous waste under RCRA 40 CFR 261.

SECTION 14 – TRANSPORT INFORMATION

DOT: Not regulated with single containers less than 5,000 lbs.

Transportation Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)

TDG: Not regulated.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.
SECTION 15 – REGULATORY INFORMATION

OSHA (U.S. Occupational Safety and Health Administration) Classification: This product is classified as a hazardous material in its unreacted state under the criteria outlined in the OSHA Hazard Communication Standard (HCS) 29 CFR 1910.1200).

TSCA (Toxic Substance Control Act) Regulations: All ingredients are on the TSCA Chemical Substance Inventory.

EPCRA (Emergency Planning and Community Right-to-Know Act) Section 313 (40 CFR 372): This product contains the following chemical subject to reporting requirements: Diisocyanate compounds (Category Code N120)

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): This product does not contain nor is it manufactured with ozone depleting substances.

Other Regulations/Legislation which apply to this product: Massachusetts Right-to-Know, Pennsylvania Right-to-Know, New Jersey Right-to-Know and CERCLA.

SECTION 16 - OTHER INFORMATION

GLOSSARY:

ACGIH – American Conference of Governmental Industrial Hygienists
IARC – International Agency for Research on Cancer
NTP – National Toxicology Program
OSHA – Occupational Safety and Health Administration

HAZARD RATING SYSTEMS:

National Paint & Coatings Association’s (NPCA) Hazardous Materials Identification System (HIMS)
National fire Protection Association (NFPA 704)

<table>
<thead>
<tr>
<th></th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
<th>KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
<td>2</td>
<td>0=Minimal</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
<td>2</td>
<td>1=Slight</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>0</td>
<td>2=Moderate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3=Serious</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4=Severe</td>
</tr>
</tbody>
</table>

For Your Protection: Typical properties, where stated, are not to be considered as specifications. MC Outer Wrap may be toxic in its unreacted state and requires special precautions in handling. While all the data in this document is believed to be reliable and to represent the best available data, no guaranty, warranty, or representation is made, intended, or implied as to the correctness, or sufficiency of any information, or as to the merchantability or suitability or fitness of this product for any particular use or purpose. The user should conduct sufficient investigation to establish the suitability of this product for its intended use.