1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

TRADE NAME: 510C URETHANE MAINTENANCE COATING – COLOR: B3, D2A, D2B

PRODUCT USE: A single component moisture cure urethane, colored, for wood, concrete or steel. FOR INDOOR USE ONLY.

MANUFACTURER’S NAME: IMCO TECHNOLOGIES

MANUFACTURER’S ADDRESS: 6254 SKYWAY RD., PO BOX 915, SMITHVILLE, ON, L0R 2A0

EMERGENCY NUMBER: 613-996-6666 or *666 CANUTEC 1-800-535-5053

2. HAZARDS IDENTIFICATION

ROUTE OF ENTRY: Eye contact, Ingestion, Inhalation, Skin contact.

CARCINOGENIC STATUS: Not considered to be carcinogenic.

TARGET ORGANS: Eye, Skin, and respiratory tract.

HEALTH EFFECTS – EYE: Liquid, mist or vapor will cause irritation. Can cause tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. Damage is usually reversible and not permanent.

HEALTH EFFECTS – SKIN: Can cause localized irritation as well as discoloration.

HEALTH EFFECTS – INGESTION: Causes irritation and burning of the mucous membranes of the gastrointestinal tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

HEALTH EFFECTS – INHALATION: Inhalation of vapours/mists at concentration above the exposure limits, can irritate (Burning sensation) the mucous membranes in the respiratory tract. Extensive exposure to concentrations of MDI well above the TLV could lead to bronchitis, bronchial spasms and pulmonary edema. These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported.

NFPA: 5-MINIMAL; 4-SLIGHT; 3-MODERATE; 2-HIGH; 1-EXTREME

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>WEIGHT %</th>
<th>TWA ppm</th>
<th>LD50 ORAL RAT Mg/kg</th>
<th>LC50 INHAL RAT Mg/M3</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)</td>
<td>101-68-8</td>
<td>10 – 30</td>
<td>0.005</td>
<td>10,000</td>
</tr>
<tr>
<td>DIPHENYLMETHANE DIISOCYANATE (MDI)</td>
<td>26447-40-5</td>
<td>10 – 30</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>AROMATIC PETROLEUM DISTILLATES</td>
<td>64742-95-6</td>
<td>15 – 40</td>
<td>50</td>
<td>8,400</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

FIRST AID – INHALATION: Remove from exposure. If there is difficulty in breathing, give oxygen. If not breathing, give artificial respiration. Obtain medical attention immediately.

FIRST AID – SKIN: Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse.

FIRST AID – EYE: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

FIRST AID – INGESTION: Have victim drink 1 – 3 glasses of water to dilute stomach contents. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

INFORMATION FOR DOCTOR:

Most important symptoms and effects, both acute and delayed. No further relevant information available.

Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY: COMBUSTIBLE LIQUID. Fire hazard. Avoid heat and flame.

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.
510C  URETHANE MAINTENANCE COATING – COLOR  Page 2 of 4

**SPECIAL HAZARDS OF PRODUCT**

During a fire, isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosion.

**PROTECTIVE EQUIPMENT FOR FIRE FIGHTING**

Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes.

**EXPLOSION DATA – SENSITIVITY TO IMPACT**

NO

**EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE**

YES

---

### 6. ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES**

Evacuate all non-essential personnel. Ventilate. Eliminate all sources of ignition. Dike area to prevent spreading. Large quantities may be pumped into closed, but not sealed, containers for disposal. Absorb isocyanates with sawdust or other absorbent. Shovel into unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: Mixture of Water (80%), with non-ionic surfactant Tergitol TMN-10 (20%), or; Water (90%), concentrated Ammonia (3-8%) and Detergent (2%). Add about 10 parts of neutralizer per part of isocyanate, with mixing. Allow to stand UNCOVERED for 48 hours to let carbon dioxide escape.

**PERSONAL PRECAUTIONS**

Eliminate all sources of ignition. Vapors can accumulate in low areas. Consider need for evacuation. Wear full protective equipment; including respiratory equipment.

**ENVIRONMENTAL PRECAUTIONS**

Dike to prevent the material from entering drains or watercourses. Decontaminate floor with neutralizing solution, letting stand for at least 15 minutes.

**REFERENCE TO OTHER SECTIONS:**

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

---

### 7. HANDLING AND STORAGE

**HANDLING**

Avoid skin and eye contact. Avoid breathing vapours or mist. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Protect product from moisture pick-up. Keep container tightly closed.

**STORAGE**

Store in tightly closed containers to prevent moisture contamination. Keep storage temperature between 0 and 50 deg C. Do not reseal if contamination is suspected. Exposure to vapours of heated isocyanates can be extremely hazardous.

**INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:**

Keep ignition sources away – DO NOT Smoke
Protect against electrostatic charges

**SPECIFIC END USE(S)**: No further information available

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROL MEASURES**

Local exhaust should be used to maintain isocyanate levels below the TLV. If general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices.

**RESPIRATORY PROTECTION**

Whenever concentrations of isocyanates exceed the TLV or are not known, respiratory protection must be worn. A positive pressure, air supplied respirator or self-contained breathing apparatus is recommended.

**HAND PROTECTION**

Full-length gloves should be worn during all handling operations. Neoprene gloves.

**EYE PROTECTION**

Splash proof chemical goggles or 8” face shield. Contact lenses should not be worn when working with this product.

**BODY PROTECTION**

Discard contaminated protective equipment. If there is danger of splashing, wear overall or apron.

**PROTECTION DURING APPLICATION**

During application, adequate ventilation must be provided. If ventilation is poor, wear respiratory protection. During application, flames and unsealed lights must be extinguished and adequate ventilation must be provided. Use normal precautions such as gloves, coveralls, eye protection and facemask with cartridges approved for inorganic vapours. When spraying, free isocyanates may be present - use air-fed, full-face mask if in enclosed area. Maintain adequate ventilation in enclosed areas.

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHYSICAL STATE</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>ODOUR &amp; APPEARANCE</strong></td>
<td>Aromatic, various colors</td>
</tr>
<tr>
<td><strong>ODOR THRESHOLD (ppm)</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY</strong></td>
<td>1.10 – 1.20</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY (AIR = 1)</strong></td>
<td>4.1</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE 20 C</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>BOILING POINT (°C)</strong></td>
<td>152 – 171°C/306 – 340°F</td>
</tr>
<tr>
<td><strong>FREEZING POINT (°C)</strong></td>
<td>-53</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>COEFFICIENT OF WATER/OIL DISTRIBUTION</strong></td>
<td>NA</td>
</tr>
</tbody>
</table>
SOLUBILITY IN WATER | Not soluble – reacts slowly with water to liberate CO2 gas.
---|---
VOC (g/l) | NA
FLASH POINT (PMCC) (°C/F) | 40°C/104°F
UPPER FLAMMABLE LIMIT %VOL | 7.0
LOWER FLAMMABLE LIMIT %VOL | 0.6
AUTOIGNITION TEMP (°C/F) | 465°C/869°F

10. STABILITY AND REACTIVITY

STABILITY | Stable under normal conditions
CONDITIONS TO AVOID | High temperatures, Static discharge, Open flames, Moisture.
MATERIALS TO AVOID | Strong oxidizing agents, Alkalis, Acids, Bases, Water, Alcohol. Corrosive to copper alloys.
HAZARDOUS POLYMERIZATION | May occur. Contact with moisture or other materials that react with isocyanates may cause polymerization.
HAZARDOUS DECOMPOSITION PRODUCTS | BY FIRE – carbon monoxide, oxides of nitrogen, hydrogen cyanide, MDI vapors.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE | Skin Contact - may irritate, defatting, drying. Eye Contact - irritating, may damage eyes. Inhalation - may cause headache, dizziness, drowsiness, intoxication. Isocyanate vapour exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema. Effects are usually reversible.
EFFECTS OF CHRONIC EXPOSURE | Irritation, blistering, ulcerations, pigmentation, hardening of skin.
EXPOSURE LIMITS | NA
IRRITANCY | Moderate irritation expected
SENSITIZATION | Isocyanate is known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates.
CARCINOGENICITY | No known effect in humans
REPRODUCTIVE TOXICITY | No known effect in humans
TERATOGENICITY | Negative.
MUTAGENICITY | Positive in the Ames assay but negative
TOXICologically SYNERGISTIC PRODUCTS | Aggravates existing dermatitis.

12. ECOLOGICAL INFORMATION

MOBILITY | Most of the product is poorly absorbed onto soils or sediments. Some of the product will leach into soil. The product will not dissolve in water.
PERSISTENCE/Degradability | Data not available.
BIO-ACCUMULATION | Product may bioaccumulate to a limited extent.
ECOTOXICITY | Fish Toxicity – LC50 (24 hr) 500 mg/L – test species: Daphnia Marga, Limnea Stagnalis, and Brachydanio Rerio.

RESULTS OF PBT and vPvB Assessment
PBT: N/A
vPvB: N/A

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL | Absorb product on an inert material (sand or earth) and transfer absorbed product into a waste container. Do not incinerate closed containers. Dispose of in accordance with all applicable local and national regulations.
CONTAINER DISPOSAL | Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

UNCLEANED PACKAGINGS:
RECOMMENDATION: Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION

CANADA | TDG CLASSIFICATION
HAZARD LABEL 3 | NOT REQUIRED
DOT CFR 172.101 DATA | NOT REGULATED in containers less than 450 liters as per package exemption 1.33 for domestic shipping.
UN PROPER SHIPPING NAME | PAINT
UN CLASS | 3
UN NUMBER | UN 1263
UN PACKAGING GROUP | III
FLASH POINT | 40 degrees C/104 degrees F
HAZARDOUS MATERIAL | MINERAL SPIRITS 28%
HAZARD LABEL | 3
MARINE POLLUTANT | NO
SPECIAL PRECAUTIONS FOR USER | N/A

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: CLASS B, DIV.3 – Combustible Liquid
  : CLASS D, DIV.2, SUBDIVISION A - Very toxic material.
  : CLASS D, DIV.2, SUBDIVISION B - Material causing other toxic effects.

CEPA STATUS (DSL): All of the ingredients of this product are listed on the Domestic Substances List.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

16. OTHER INFORMATION

HAZARD RATING (HMIS) | HEALTH: 2  FLAMMABILITY: 3  REACTIVITY: 4
  5-MINIMAL: 4-SLIGHT: 3-MODERATE: 2-HIGH: 1-EXTREME

KEY
NA: No applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety
LD50: Lethal Dose 50%
LC50: Lethal Concentration 50%

PREPARED BY: IMCO Technologies Inc.

SDS REVISION DATE | October 11, 2018

Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.