

SAFETY DATA SHEET

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.
MANUFACTURE'S NAME	IMCO TECHNOLOGIES TEL 1-877-957-4626 IMCO TECHNOLOGIES 6254 SKYWAY RD., PO BOX 915 FAX 905-527-0606 3909 Witmer RD, Suite 1014 SMITHVILLE, ON. L0R 2A0 NIAGARA FALLS, NY 14305
EMERGENCY NUMBER	613-996-6666 or *666 CANUTEC 1-800-535-5053 UNITED STATES POISON INFORMATION CENTRE

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 exposures 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



HMIS

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	WEIGHT %	TWA ppm	LD50 ORAL RAT Mg/kg	LC50 INHAL RAT Mg/M3
4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	101-68-8	10 – 30	0.005	10,000	370 – 490 (4HR)
DIPHENYLMETHANE DIISOCYANATE (MDI)	26447-40-5	10 – 30	NA	NA	172 – 187 (4HR)
AROMATIC PETROLEUM DISTILLATES	64742-95-6	15 – 40	50	8,400	18,000

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.

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	Dyke 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

PHYSICAL STATE	Liquid
ODOUR & APPEARANCE	Aromatic, various colors
ODOR THRESHOLD (ppm)	NA
SPECIFIC GRAVITY	1.10 – 1.20
VAPOR DENSITY (AIR = 1)	4.1
VAPOR PRESSURE 20 C	NA
EVAPORATION RATE	NA
BOILING POINT (° C)	152 – 171C/306 – 340F
FREEZING POINT (° C)	-53
pH	NA
COEFFICIENT OF WATER/OIL DISTRIBUTION	NA

SOLUBILITY IN WATER	Not soluble – reacts slowly with water to liberate CO ₂ gas.
VOC (g/l)	NA
FLASH POINT (PMCC) (°C/F)	40° C/104F
UPPER FLAMMABLE LIMIT %VOL	7.0
LOWER FLAMMABLE LIMIT %VOL	0.6
AUTOIGNITION TEMP (°C/F)	465C/869F

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 Magna, 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	NOT REGULATED in containers less than 450 liters as per package exemption 1.33 for domestic shipping.
EXPORT	
DOT CFR 172.101 DATA	(<1 gallon) Proper Shipping Name: Consumer Commodity, ORM-D
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.