

**IMCO TECHNOLOGIES INC.  
MATERIAL SAFETY DATA SHEET  
FOR COATINGS, RESINS AND RELATED MATERIALS**

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**Section I - Product Information**

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**Manufacturers Name:** Imco Technologies Inc.

**Street Address:** 350 Wentworth St. North

**City:** Hamilton

**Postal Code:** L8L 5W3

**Trade Name:** 510S, 510C, 510A

**Emergency Telephone #:** Canutec 1-613-996-6666 (collect)

**Province:** Ontario

**Product Class:** Single-component moisture cure urethane

**Product Use:** Maintenance Coating

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**Section II - Hazardous Ingredients**

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INGREDIENT	CONCENTRATION	TLV	VAPOUR PRESSURE	CAS NO.
diphenylmethane diisocyanate	10	0.02 ppm	1.4 x 10 <sup>-4</sup> mm Hg	101-68-8
naphtha, petroleum	47	50 ppm	10 mm Hg	647242-95-6

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**Section III - Physical Data**

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**Boiling Range:** 154°C/310°F

**Lighter than Air:**

**Percent Volatile By Volume:** 35

**Slower than Ether:**

**Weight Per Gallon:** 10.92 lb/gal

**Physical State:** Liquid

**Vapour Density**

**Heavier:** X

**Evaporation Rate**

**Faster:** X

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**Section IV - Fire and Explosion Hazard Data**

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**Flammability Classification OSHA:** 11

**Flash Point:** 110°F

**DOT:** Combustible Liquid

**Extinguishing Media**

**Foam:**    **Alcoholic Foam:**    **CO2:** X    **Dry Chemical:** X    **Water Fog:**    **Other:**

**Unusual Fire and Explosion Hazards:** Full emergency equipment with self-contained breathing apparatus should be worn by fire fighters. At temperatures greater than 400°F (204°C) pressure buildup can cause explosive rupture, therefore use cold water to cool fire-exposed containers.

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## Section V - Toxicological Properties

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### Effects of Overexposure:

**INHALATION:** Inhalation of vapours or mist can produce irritation of 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. However, due to low volatility, high exposures are not anticipated except if the material is overheated or sprayed as an aerosol into the air. Hypersensitivity pneumonitis has also been reported. Another type of response is hyperreactivity or hypersensitization. Persons with a preexisting unspecific bronchial hyperreactivity or persons with a specific isocyanate hypersensitization. Persons with a preexisting unspecific bronchial hyperreactivity or persons with a specific isocyanate hypersensitivity (as a result of previous repeated overexposure or a single large dosage) will respond to small isocyanate distress or asthmatic attack.

**SKIN:** can cause localized irritation as well as discolouration.

**EYES:** vapours irritating to eyes and can cause tearing effect. Corneal damage may occur, however, damage is reversible and not permanent.

**INGESTION:** irritation and some corrosive action in mouth, stomach tissue, digestive tract.

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## Section VI - First Aid

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### Emergency and First Aid Procedures:

**EYES:** flush with lukewarm water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention.

**SKIN:** thoroughly wash exposed area with soap and water. Wash contaminated clothing before re-use.

**INHALATION:** move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Keep person warm, quiet and get medical attention.

**INGESTION:** Do not induce vomiting. Give cup of milk or water to drink. Get medical attention.

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## Section VII - Reactivity Data

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### Stability

**Unstable:** X

**Stable:**

**Conditions to Avoid:** water, alcohols, amines, strong bases

**Incompatibility (materials to avoid):** Avoid moisture

**Hazardous Decomposition Products:** by heat and fire: CO<sub>2</sub>, CO, oxides of nitrogen, traces of HCN, MDI

**Hazardous Polymerization**

**May Occur:** X

**Will Not Occur:**

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## Section VIII - Preventative Measures

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**Respiratory Protection:** If TLV is exceeded, a NIOSH/MSHA jointly approved air supplier respirator is advised in absence of proper environmental control.

**Ventilation:** Ventilation is required to maintain air concentrations below TLV's. If material is spray applied, ventilation should be provided and an air supplier respirator worn.

**Protective Gloves:** Chemical resistant gloves

**Eye Protection:** Safety glasses with side shields, splash goggles or face shield. Contact lenses should not be worn.

**Other Protective Equipment:** Safety showers and eyewash stations should be available.

**Steps to be taken in case material is released or spilled:** SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent material and transfer to hood. LARGE SPILL: Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Stop spill at source. Dike area of spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be taken up on absorbent material and shovelled into containers.

**Waste Disposal Method:** Waste material must be disposed of in accordance with federal, state and local environmental control regulations.

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### Section IX - Additional Information

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**Precautions to be taken in handling and storing:** Do not freeze. Store in cool place, free from moisture.

**Other Precautions:** Hazardous polymerization will not occur under normal conditions, however it may occur if in contact with moisture or other materials which react with isocyanites. It also may occur at temperatures over 400°F (204°C).

Toxicity Data:     Ingestion, LD50 = 9.4 g/kg (rat)  
                      Inhalation, LC50 = 490 mg/cubic m (rats - 4 hr. exposure)  
                      Eye effects: moderate reddening, slight swelling (rabbit)  
                      Skin effects: slight reddening, 8 hr. exposure (rabbit)

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### Section X

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**Prepared by:** IMCO. TECHNOLOGIES INC.

**Date:** January 2006

**Telephone:** (905) 546-5225

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