MATERIAL SAFETY DATA SHEET

Trade Name: InstaCote M-12, Isocyanate Part "A"

Section I -General Information

	Item Name:	M-12 Isocyanate, Part	"A"	
	Manufacture:	InstaCote, Inc. 160 C Lavoy Road Erie, MI 48133		
Section	Last Review Da MSDS Prepare Product Descri	rs Name/Address: Prepa ption: Pre-polymerized Product (Y/N): Y N): Y	ared by manufac Isocyanate Blen	
Section	Ingredient	% by Wt.	CAS #	Exposure Limits (TWA)
	Diphenylmethane Diiso To include	•	<u>26447-40-5</u>	0.02 ppm ceiling limit, OSHA 0.005 ppm TLV, ACGIH
	4, 4'-Diphenylmethane Diisocyanate (4,4'-MD		101-68-8	0.02 ppm ceiling limit, OSHA 0.005 ppm TLV, ACGIH
	Modified Isomers	70-80	Not Disclosed	Not Listed
	Propylene Carbonate	2	108-32-7	Not Listed
<u>Section</u>	n III-Physical/Chemica Appearance and Odor. Boiling Point: 738° F Melting Point: 47° F Vapor Pressure: 0.001 Vapor Density: No dat Specific Gravity: 1.110 Decomposition Temp.: Evaporation Rate: No d Solubility (H ₂ O): 0.1% Percent Volatiles by Vo Viscosity: 970 ± 100 c pH: Not applicable	Clear, amber color thic mm Hg @ 130°F a ± 0.012 @ 72°F Above 738°F lata by wt @ 68°F (Reacts v olume: unknown	vigorously with v	water)
a				

Section IV - Fire and Explosion Hazard Data

>230°F C.O.C.
Not Determined
Not Determined
: Use dry chemical, CO ₂ , AFFF (foam). If only water is available
Use very large volume. Reaction with water at elevated
temperatures may be violent. Runoff water must be retained.
ons: Full face shield, self-contained breathing apparatus with full
protective gear.
ls: Isocyanate and water combined react to produce carbon dioxide.
Contaminated, sealed containers may rupture.

Section V - Reactivity Data

Stable (Y/N):	Y			
Conditions to Avoid:	Temperatures below 70 °F cause solidification			
	Temperatures above 120 °F cause polymer condensation			
Materials to Avoid:	Product may react violently with water, alcohol, amines, acids, bases			
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, ammonia and trace				
	amounts of Hydrogen cyanide.			
Hazardous Polymerization: May occur. Avoid contamination with liquid water or water vapor.				

Section VI - Health Hazard Data

Routes of Entry				
Inhalation (Y/N):	Y, May cause respiratory tract irritation(pulmonary edema, nasal discharge, coughing, chest pain. This product may cause respiratory sensitization, in which, after repeated exposures above the occupational exposure limit, hyper-reactive responses may occur in sensitized individuals following minimal doses.			
Skin (Y/N):	Y, Product exhibits skin sensitization. Some evidence indicates that skin contact may induce a respiratory sensitization reaction.			
Ingestion (Y/N):	Y, May cause digestive tract and gastrointestinal tract. Systemic ingestion effects are practically non-toxic.			
Other:	Y, Acute vapor exposures may temporarily cause hazy or blurred vision.			
Contact Eye/Skin Hazards:	Y, Product is a mild eye and skin contact irritant.			
Carcinogenicity Data:	No human or animal carcinogenic data is available.			
IARC Monographs on the Evaluation of the Carcinogenic: None				

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First Aid Procedures:

<u>Gross Inhalation</u>: Move victim to fresh air environment. First administer oxygen, if available. Seek immediate medical attention.

Gross Ingestion: If victim is conscious, give at least two glasses of water. DO NOT

INDUCE VOMITING. Seek

<u>Skin Contact</u> - Wash affected areas with soap and water. Wash soiled clothing before reuse.

<u>Severe Eye Contact</u> - Flush eyes with water for 15 minutes. Seek medical attention.

Section VII - Precautions for Safe Handling and Use

Personal Protective Equipment (Routine Use):
<u>Respiratory Protection</u> : Airborne concentrations of chemical should be maintained as low
as possible. If vapors or mists are formed, use NIOSH/MSHA approved air supplied
respirator to prevent overexposure.
Gloves: Recommend latex, butyl rubber, or nitrile gloves.
Eye Protection: Safety goggles or glasses with face shield are recommended.
Other: Recommend Tyvek suits or coveralls.
Work Practices: This product may be used in indoor or outdoor environments.
Exposures to hazardous components are not expected to exceed permissible limits during
routine daily use.
Ventilation: If vapors or mists are generated, local exhaust ventilation is recommended.
Spill/Release Procedures: For major spills, call CHEMTREC 1-800-424-9300. Ventilate
area and avoid breathing vapors. Use chemical cartridge respiratory protection and full
protective clothing to clean large spills or spills in confined areas. Contain spill, and
prevent entry into sewers and waterways.
Neutralization Procedures: Use 0.2-0.5% liquid detergent mixed with 3-8% Ammonium
hydroxide or 5-10% sodium carbonate in water. Use 10 parts of solution for one part of
Spill material. Allow 30 minutes to deactivate before placing spilled material into drums.
Do not mix with any other waste material.

Waste Disposal Procedures: This material is not a listed hazardous waste, nor does it exhibit any hazardous waste characteristic.

Storage/Handling Procedures: Store product in a dry environment, away from strong bases and oxidizers. Do not place in contact with copper metal, copper alloys or zinc coated metals. Purge headspace in partially use container with dry nitrogen gas.

Section VIII-Transportation Information:

Bill of Lading description: Liquid, NOS, (MDI), NA3082, PGIII

END