FLOORMAXTM Coatings Phone 877-TECH-986 (877-832-4986)

	Product: Date: Revision No:	MATERIAI FLOOR July 3, 2 1	L SAFETY DATA MAX [™] Polyurea 2012	. SHEET High Perf	ormance Coating	g Part: Iso
SECTION 1 Material Product Name: Chemical Family: Chemical Name: Product Use:	FLOORMAX [™] Pol Aliphatic Polyisocy Blend of IPDI/HDI Polyurea/Polyureth	yurea High anate based Poly ane Harde	n Performance Co visocyanate Prepo ener	oating olymers	(Iso)	
SECTION 2 Physical a Form: Color: Molecular Weight: Boiling Point: Vapor Pressure (at 2000 Vapor Density (air=1): Freezing Point: Bulk Density (lbs/gal):	and Chemical Prop Liqu Clea N/A N/A C, mm Hg): 1.8 x N/A -744 8.3	erties d r/Pale Yell 10 ⁻⁵ - (-59℃)	Odor: ow Odor Thresho Solubility in W Specific Gravi Percent VOC' Evaporation F Viscosity (cps a Percent Solida	ld: 'ater % by ty (H ₂ O=1 s by Volu tate (buty at 25° C): s by Weig	y WT: 1): me: I acetate = 1): ; ; ;	Slight not est. Insoluble 1.00 @ 20°C 0% N/A N/A 75%
SECTION 3 Stability and ReactivityStability:Stable under normal conditions.Conditions to Avoid:N/AIncompatibility (Materials to Avoid)Water, amines, strong bases, alcoholsHazardous Polymerization:May occur; contact with moisture or other materials which react with isocyanates or temperatures above 400°F may cause p olymerization.Decomposition Products:By high heat and fire: carbon dioxide, carbon monoxide, oxides of nitrogen, HCN, HDI, and other undetermined aliphatic fragments.						
SECTION 4 Hazard Id <u>Material</u> Homopolymer of HDI IPDI Prepolymer VOC Exempt Solvent Isophorone Diisocyanate	entification <u>CAS a</u> 28182-8 ⁻ Proprieta Proprieta 4098-71	<u># %</u> I-2 30-85% Ary 15-55% Ary 10-40% -9 <.5% O Ad	SARA 313 None None OSHA PEL-TWA: OSHA PEL STEL: SHA PEL CEILING: ACGIH TLV-TWA: ACGIH TLV STEL: CGIH TLV CEILING:	ppm N/E N/E N/E N/E N/E N/E N/E	OSHA N/E N/E M/E N/E N/E N/E N/E N/E N/E	ACGIH N/E. N/E

EMERGENCY OVERVIEW: May cause eye, skin, and respiratory tract irritation. May cause allergic respiratory reaction. Harmful if inhaled. May cause allergic skin reaction. May cause lung damage.

ROUTES OF ENTRY: Inhalation; Skin Contact; Eye Contact

POTENTIAL HEALTH EFFECTS

EYES: Liquid, aerosol and vapors of this product may cause irritation

SKIN: May cause skin sensitization

INGESTION: None found

INHALATION: Can cause respiratory tract irritation. Certain individuals may develop isocyanate sensitization (asthma like symptoms).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Asthma and other respiratory disorders (bronchitis, emphysema), skin allergies, eczema

CARCINOGENICITY:

Not listed by NW, IARC or regulated as a carcinogen by OSHA

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HMIS HAZARD CLASSIFICATION HEALTH: 2 FLAMMABILITY: 1	0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Health Hazard REACTIVITY: 1
SECTION 5 First Aid Massuras	
Eye Contact:	Flush with clean, lukewarm water (low pressure) for at least 15 minutes, while
Skin Contact:	Remove contaminated clothing immediately. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse.
Inhalation:	Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.
Ingestion:	DO NOT INDUCE VOMITING. Give 1 to 2 cups of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. Consult physician immediately. Should vomiting occur keep patient's head lower than hip level to prevent aspiration.
NOTE TO PHYSICIAN	
Skin:	Treat symptomatically as for contact dermatitis.
Eyes:	Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation frequently. Workplace vapors could produce reversible corneal epithelial edema impairing vision.
Inhalation:	This product is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material must be removed from any further exposure to any isocyanate
Ingestion:	Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritation nature of the product.
SECTION 6 Fire-Fighting Measures	
Flash Point (test method):	365€ (185℃) Setaflash_(ASTM D-3243, D-3278, D-3828)
Flammable Limits:	None established.
Auto-Ignition Temperature:	Not established.
Extinguishing Media:	Water Spray, Dry Chemical, Foam, and CO ₂ .
Special Fire Fighting Procedures:	Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters.
Decomposition Products: Unusual Fire and Explosion Hazards:	(See Section 3) None reported.
SECTION 7 Assidental Palassa Mag	
Steps to be taken if material	Evacuate nonessential personnel. Remove all sources of ignition and
is released or spilled:	ventilate the area. Notify appropriate authorities if necessary. Put on personal protective equipment (See Section 9). Dike or impound spilled material and control further spillage if feasible. Cover the spill with sawdust, vermiculite, Fuller's earth, or other absorbent material. Pour decontamination solution over spill area and allow to react for at least 10 minutes. Collect material in open
	containers and add further amounts of decontamination solution. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours.
Decontamination Solutions:	 Wash down spill area with decontamination solutions. 1. Nonionic surfactant Union Carbide's Tergitol TMN-10 (20%) and water (80%)
Waste Disposal Method:	Waste must be disposed of in accordance with Federal, State, and Local Environmental Control Regulations. Incineration is the preferred method. If incinerated, toxic and corrosive combustion cases must be properly handled
Empty Container Precautions:	Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose

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such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner

and in accordance with governmental regulations.

SECTION 8 Handling and Storage Storage Temperature (min/max): Shelf Life: Handling / Storage Precautions:	30F (-1C) / 122F (50C) 6 months at 77F (25C) after receipt o f material by customer. Storage of this product at temperatures greater than 122F (50C) can result in a significant increase in monomeric HDI content. Store in tightly closed containers to prevent moisture contamination. Nitrogen blanketing of material is recommended.
Technical Shipping Name: Freight Class Bulk: Freight Class Package: Product Label:	Polyisocyanate Containing 1, 6-Hexamethylene Diisocyanate Isocyanate Chemicals, NOI (Isocyanate), NMFC 60000 Product Label Established
Proper Shipping Name: Hazard Class or Division: UN/NA Number: Packing Group: Hazardous Substance: DOT Product RQ: Hazard Label(s): Hazard Placard(s):	<< DOT (DOMESTIC SURFACE) >> Other Regulated Substances, Liquid, N.O.S.* (contains Polymeric Hexamethylene Diisocyanate) 9 NA 3082 III Hexamethylene-1, 6-Diisocyanate 20,000 lbs. (9072.0 kgs.) Class 9 Class 9 * When in individual containers of less than the Product RQ, this material ships as non-regulated.
Hazard Class Division Number:	<< IMO / IMDG CODE (OCEAN) >> Non-Regulated
Hazard Class Division Number:	<< ICAO / IATA (AIR) >> Non-Regulated
Special Sensitivity:	If container is exposed to high heat and/or moisture, it can be pressurized and possibly rupture explosively. HDI reacts slowly with water to form CO ² gas. This gas can cause sealed containers to expand and possibly rupture explosively.
SECTION 9 Exposure Controls / Pers	sonal Protection Information

Required Work/Hygiene Procedures: Precautions must be taken so that persons handling this product do not allow contact with the eyes or skin. In spray operations, protection must be afforded against exposure to both vapor and spray mist. Educate and train all employees in the safe use of product. Safety glasses, splash goggles, or face shield. Contact lenses should not be Eye Protection Requirements: worn as eye protection but used with safety glasses, splash goggles or face shield for full protection. Permeation resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol (PVA)). Skin Protection Requirements: However, please note that PVA degrades in water. Cover as much of the exposed skin area as possible with appropriate clothing. Tyvek suits with headcover is recommended for spray applications. A respirator that is recommended or approved for use in isocyanate-containing **Respirator Requirements:** environments (air purifying or fresh air supplied) is necessary for spray applications. Additional Protective Measures: Safety showers and eyewash stations should be available. Educate and train employees in safe use of product. Follow all label instructions.

SECTION 10 Toxicology Information

Toxicity Data for HDI homopolymer materials except where indicated.

	ACUTE TOXICITY
Oral LD50:	Estimated to be greater than 10,000 mg/kg (rats). Based on the results of actual
	tests conducted using specific HDI – homopolymer products.
Dermal LD50:	Estimated to be greater than 5,000 mg/kg (rabbits). Based on the results of
	actual tests conducted using specific HDI – homopolymer products.
Inhalation LC50:	Lower respiratory (pulmonary) irritant. LC50 values range from 137-1150 mg/m3
	were obtained in rats exposed to aerosols (4 hr. exposure).
Eye Effects:	Severe irritant capable of inducing corneal injury (rabbit). Maximum primary eye
	irritation score: 54.6/110 for a 24 hr. exposure.
Skin Effects:	Moderate irritant; primary dermal irritation score: 3.4/8.0 (rabbit).
Sensitization:	Pulmonary and dermal sensitizer in animals and humans. Evidence exists that
	cross-sensitization between HDI and other isocyanates, particularly
	hydrogenated MDI and TDI, can occur.
Other Acute Effects:	Ames test – negative for Desmodur N-100 (100& solids material).

SECTION 11 Ecological Information

ECOLOGICAL INFORMATION: None available

SECTION 12 Disposal Considerations

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal state and local environmental control regulations. Incineration is the preferred method.

RCRA HAZARD CLASS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic

SECTION 13 Regulatory Information

U.S. FEDERAL REGULATIONS TSCA (TOXIC SUBSTANCE CONTROL ACT): On Inventory CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Reportable quantity 100 lbs SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): 311/312 HAZARD CATEGORIES: Immediate Health Hazard; Delayed Health Hazard; Reactive Hazard 313 REPORTABLE INGREDIENTS:

None

SECTION 14 Other Information

The information and recommendations contained herein are based on standard product and are proprietary and furnished solely for the use of our customers. While believed to be true and accurate, they are offered solely for your consideration, investigation, and verification, and no guarantee or warranty of any kind, expressed or implied, is made by FLOORMAXTM Coatings with respect to this data. The applicability of federal, state and local laws and regulations to this product information must be determined by the user.