Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard,					U.S. Department of Labor Occupational Safety and Health Administration						
29 CFR 1910.1200. Standard must be consulted for specific requirements.  IDENTITY (As Used on Label and List)					(Non-Mandatory Form) Form Approved OMB No. 1218-0072  Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.						
Derbibond PG - Part A	D14 4 T 1 O 1 1			tion is	availar	ole, the space m	iust be i	marked to ir	ndicate that.		
SECTION I - PRODUCT INFO					I		NI	000 70	7 0070		
Manufactured For: DERBIGUM Americas, Inc.						gency Telephon					
Address: 4821 Chelsea Ave., Kansas City, MO 64130					Telephone Number for Information: 800-727-9872  Signature of Preparer (Optional)						
Date Prepared: August 18, 2009	NADEDIENES / II		N/ 11150 DA/		Signa	iture or Prepare	т (Орио	iiai)			
SECTION II - HAZARDOUS II					0/	Oiti	Τ ,	00111	NIIOOLI	LOUGA	DEL -
Hazardous Components (Specific Chemical Identity, Common Name(s))  CAS N  Mathylana himbanal inappropria (MDI)					% '	Composition	ACGIH		NIOSH	OHSA	
Methylene bisphenol isocyanate (MDI)			101-68-8			30-60	.005 ppm		.005 ppm		ppm
Polymethylene polyphenylene isocyar		arenia.		9016-87-9		30-60	1 mg/m3		.05 mg/m3	15 m	9/1113
SECTION III - PHYSICAL / CH			IICS	<u> </u>				l a <del></del> .			
Physical State: Liquid	<del>  ''</del>				dor: Faint, aromatic			Odor Threshold (ppm): ND			
Specific Gravity: 1.22	1 ' ' '		•	ressure (mm Hg): ND			Evaporation Rate (Butyl Acetate = 1): ND			ט	
Boiling Point : ND	Melting Point: ND			pH: ND	D Solubility in Water: Reacts with water				with water.		
SECTION IV - FIRE AND EXP		1		1/ 10/2 / :-		. E. N.S			Tuel ve		
Flash Point (Method Used): Pensky-N		Flamma	able Limits (vo	)/vol%): NI	<u> </u>	LFL: ND			UFL: ND		
Extinguishing Media: Use methods for			Alice elektrice i	11!	16						
Special Fire Fighting Procedures: Fire									ator producing C	22 gas Do r	
Unusual Fire and Explosion Hazards: reseal contaminated containers as a h	nazardous pressure bu	uild up co	uld result in co	ontainer ru	oture.						
Hazardous Decomposition Materials (	Under Fire Conditions	): Combu	istion product	s may inclu	ide carl	oon oxides, nitro	ogen ox	ides, hydro	carbons, HCN an	d isocyanate	s.
SECTION V - REACTIVITY DA	TA				1						
Chemical Stability Stable: Stable at room temperature. Reaction with water (moisture) produces CO2 gas. Exothermic reaction with materials containing active hydrogen groups.  Conditions to Avoid: Avoid high temperatures. Avoid contact with water. Avoid contamination. Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin and zinc.											
Incompatibility (Materials to Avoid): V	Vater, alcohols, amine	s, bases	and acids.								
Hazardous Decomposition Products:	Carbon oxides, nitrog	en oxides	s, hydrocarbor	ns, HCN ar	nd isocy	anates.					
Possibility of Hazardous Reactions: F	Polymerization will occ	ur at elev	ated tempera	tures in the	preser	nce of alkalies, t	tertiary a	amines and	metal compound	s.	
Hazardous Polymerization May	Occur: NA V	Vill Not O	ccur: Should	not occur	Cond	itions to Avoid:	ND				
SECTION VI - HEALTH HAZA	RD DATA										
Route(s) of Entry Skir	n Contact 🛛	Skin A	Absorption		ye Con	itact 🛛	Int	nalation	⊠ In	gestion	×
Effects of Acute Exposure to Product: skin. This product may cause an aller difficulty breathing and shortness of b gastrointestinal irritation, nausea, vom	gic skin reaction; INH preath; irritation of the liting and diarrhea.	ALATION	I-Allergic lung	reaction s	uch as	asthma, which i	includes	s coughing,	wheezing, chest	pain and tig	htness,
Effects of Chronic Exposure to Produc											
Emergency and First Aid Procedures: tion at once. SKIN EXPOSURE: Was shoes, that cannot be decontaminated asthma-like symptoms may develop. One of the contamination of the conta	sh affected area with a d should be discarded. Obtain medical attentio	soap and INHALA n. INGES	water. Get m TION: Remov STION: If the r	edical atte e to fresh naterial is	ntion if air. Adn	irritation develo	ops or p or artific	ersists. Cor cial respirati	ntaminated leathe on as needed. Im	er articles, in mediate or o	cluding delayed
SECTION VII - PRECAUTION	S FOR SAFE HAN	<u>IDLING</u>	AND USE	<u> </u>							
Steps to Be Taken in Case Material is sonal protective equipment. Stop the 1 Shovel material into appropriate contains	flow of material, if this	is withou	t risk. Do not a	allow to dra	in to se	ewers. Ventilate	the cor	ntaminated	area. Absorb spill	with inert m	
Waste Disposal Method: Dispose of in	accordance with fede	eral, state	and local reg	ulations in	a perm	itted waste mar	nageme	nt facility.			
Precautions to Be Taken in Handling a contact with water. Do not re-seal con aluminum, brass, copper, galvanized not store in open, unlabeled or mislab	taminated product as metals, tin and zinc. S eled containers. Do no	a hazardo torage:  k	ous build-up o Keep containe	f pressure rs properly	may re sealed	sult from liberat in a cool, dry, v	ion of C vell-ven	O2 gas. Av tilated area	oid contact with n between 65-85F	netals such a (18.3-29.4C	as

Respiratory Protection: Use a NIOSH-approved organic vapor respirator to protect against inhalation of vapors. A respirator should be used if ventilation is unavailable, or

is inadequate for keeping vapor levels below the applicable exposure limits.

Eye / Face Protection: Wear chemical goggles; add face shield (if splashing is possible).

Skin Protection: The use of neoprene, nitrile rubber or butyl rubber gloves is recommended.

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.				U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072						
					e: Blank spaces are not permitted. If any item is not applicable, or no informa- is available, the space must be marked to indicate that.					
SECTION I - PRODUCT INFO	RMATION									
Manufactured For: DERBIGUM Amer	Emergency Telephone Number: 800-727-9872									
Address: 4821 Chelsea Ave., Kansas City, MO 64130					Telephone Number for Information: 800-727-9872					
Date Prepared: August 18, 2009					Signature of Preparer (Optional)					
SECTION II - HAZARDOUS I	NGREDIENTS /	DENTIT	Y INFORM	ATION						
Hazardous Components (Specific Chem	Hazardous Components (Specific Chemical Identity, Common Name(s))		CAS Number		% Composition	ACGIH	NIOSH	OHSA-PELs		
Polypropylene glycol		25322-	69-4	60-100	ND	100 ppm	ND			
Proprietary Tertiary Amines			Not Available		1-5	ND	ND	ND		
SECTION III - PHYSICAL / CH	HEMICAL CHARA	CTERIST	TICS							
Physical State: Liquid	Appearance: Colorless Odor:			Odor: Poly	yether	Odor Thre	Odor Threshold (ppm): ND			
Specific Gravity: 1.01	Vapor Density (AIR		Vapor Pre	ssure (mm Hg): ND	Evaporati	Evaporation Rate (Butyl Acetate = 1): ND				
Boiling Point : ND	Melting Point: ND		pH: 9-10			Solubility in Water: ND				
<b>SECTION IV - FIRE AND EXP</b>	LOSION HAZAR	D DATA								
Flash Point (Method Used): Pensky-Martin Closed Cup Flammable				ol/vol%): NI	D LFL: ND		UFL: ND			
Extinguishing Media: Use methods fo	r the surrounding fire									
Special Fire Fighting Procedures: Firefighters should wear full protective clothing including self contained breathing apparatus.										
Unusual Fire and Explosion Hazards: Cool containers with water spray. Containers may burst if overheated.										
Hazardous Decomposition Materials (Under Fire Conditions): Combustion products may include carbon oxides, nitrogen oxides, HCN and organic acid vapors										
SECTION V - REACTIVITY DA			1							
					Avoid high temperatures. Avoid contact with water. Avoid contamination. etals such as aluminum, brass, copper, galvanized metals, tin and zinc.					
Incompatibility (Materials to Avoid): \	Water, alcohols, amin	es, bases	and acids.							
Hazardous Decomposition Products:	Carbon oxides, nitro	gen oxides	, hydrocarbor	ns, HCN ar	nd organic acid vapors.					

SECTION VI - HEALTH HAZARD DATA							
Hazardous Polymerization	May Occur: NA	Will Not Occur: Should not occur	Conditions to Avoid: ND				
Possibility of Hazardous Reactions: Will not occur.							
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, hydrocarbons, HCN and organic acid vapors.							
Incompatibility (Materials to Avoid): Water, alcohols, amines, bases and acids.							
Chemical Stability Stable: Stable at room temperature.  Conditions to Avoid: Avoid high temperatures. Avoid contact with water. Avoid contamina Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin and zi							

Route(s) of Entry Skin Contact Skin Absorption **Eve Contact** Inhalation  $\boxtimes$  $\boxtimes$  $\boxtimes$ Ingestion

Effects of Acute Exposure to Product: EYE-This product is irritating to the eyes. Symptoms include itching, burning, redness and tearing. May cause eye burns; SKIN-This product is severely irritating to the skin. This product may cause an allergic skin reaction; INHALATION-Allergic lung reaction such as asthma, which includes coughing, wheezing, chest pain and tightness, difficulty breathing and shortness of breath; irritation of the upper respiratory tract, which includes burning of mouth, throat, and chest; INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects of Chronic Exposure to Product: ND

Emergency and First Aid Procedures: EYE EXPOSURE: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once. SKIN EXPOSURE: Wash exposed skin with soap and water. If irritation develops or persists, seek medical attention. Contaminated leather articles, including shoes, that cannot be decontaminated should be discarded. INHALATION: Remove to fresh air. Administer oxygen or artificial respiration as needed. Immediate or delayed asthmalike symptoms may develop. Obtain medical attention. INGESTION: If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure. Wear appropriate personal protective equipment. Stop the flow of material, if this is without risk. Do not allow to drain to sewers. Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for further neutralization and disposal. Avoid inhalation of vapors or mists. Surfaces may become slippery after a spill.

Waste Disposal Method: Dispose of in accordance with federal, state and local regulations in a permitted waste management facility.

Precautions to Be Taken in Handling and Storing: Handling: Avoid contact with skin and eyes. Do not breathe vapors. Wear proper personal protective equipment. Avoid contact with water. Do not re-seal contaminated product as a hazardous build-up of pressure may result from liberation of CO2 gas. Avoid contact with metals such as aluminum, brass, copper, galvanized metals, tin and zinc. Storage: Keep containers properly sealed in a cool, dry, well-ventilated area between 65-85F (18.3-29.4C). Do not store in open, unlabeled or mislabeled containers. Do not reuse empty container without commercial cleaning or reconditioning. Other Precautions: NA

## **SECTION VIII - CONTROL MEASURES**

Respiratory Protection: Use a NIOSH-approved organic vapor respirator to protect against inhalation of vapors. A respirator should be used if ventilation is unavailable, or is inadequate for keeping vapor levels below the applicable exposure limits.

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Eye / Face Protection: Wear chemical goggles; add face shield (if splashing is possible)

Skin Protection: The use of neoprene, nitrile rubber or butyl rubber gloves is recommended.