MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION February 2012

	February 2012
PRODUCT NAME:	Iron Guard
PRODUCT CLASS:	Epoxy Resin, Part A
PRODUCT CLASS: PRODUCT TYPE:	4,4'-lsopropylidenediphenol Epichlorohydrin Resin
D.O.T. CATEGORY:	Chemical, NOIBN
ADDRESS:	International Coatings
	Div. of Milamar Coatings, L.L.C.
	311 N.W. 122 nd St. Suite 100
	Oklahoma City, OK 73114
TELEPHONE:	405-755-8448 OUEM TEL 800 255 2024
EMERGENCY:	CHEM TEL 800-255-3924
	SECTION II - HAZARDOUS INGREDIENTS
	S: Health 1, Flammability 1, Reactivity 0
	ardous component(s) as defined in 49 CFR 172 and 29 CFR 1910 which are present in this
product and all compone	ents which appear on the hazardous substance list of any state:
Departies and duct of encied	
Reaction product of epici	hlorohydrin and bisphenol A - CAS# 025085-99-8 >75%
	SECTION III - PHYSICAL DATA
PHYSICAL STATE:	Moderate viscosity, amber liquid.
SPECIFIC GRAVITY:	1-14 at 77 ⁰ F.
DENSITY:	9.5 lbs/gal
SOLUBILITY:	Negligible
pH:	NA
PERCENT VOLATILES:	0 at 70° F
S	SECTION IV - FIRE AND EXPLOSION HAZARD DATA
FLASH POINT:	420°F (Pensky Martens Closed Cup)
FLAMMABILITY LIMITS	
FL:	NA
UFL:	NA
	Foam, Dry Chemical, Carbon Dioxide (CO ₂)
	CTIONS: Use water spray to cool fire-exposed containers until fire is out. Wear positive-
•	breathing apparatus and full protective equipment, as decomposition products are
hazardous	CITION DRODUCTS: Mainly abanalize CO and U.O.
HAZARDOUS DECUMPO	SITION PRODUCTS: Mainly phenolics, CO and H ₂ O
	SECTION V - HEALTH HAZARD DATA
EFFECTS OF OVEREXPO	
EYES:	May cause temporary eye irritation. Corneal injury unlikely
SKIN:	Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may
	cause skin irritation and has caused skin reactions in humans. A single prolonged exposure
NAFATION	unlikely to result in material being absorbed into skin.
INGESTION:	Single dose oral toxicity extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling.
INHALATION:	Vapors are unlikely due to physical properties
EMERGENCY AND FIRST	
EYES:	Immediately flush with large amounts of water for at least 15 minutes lifting upper and
	lower lids occasionally. GET IMMEDIATE MEDICAL ATTENTION . If a physician is not
	immediately available, continue flushing with water.
SKIN:	Immediately flush skin with water for at least 15 minutes while removing contaminated
	clothing and shoes. GET MEDICAL ATTENTION if swelling or reddening occurs.
Pade 2	Iron Guard Pesin, Part A

INHALATION:

Remove to fresh air if effects occur and administer oxygen if necessary. GET MEDICAL ATTENTION if effects persist.

INGESTION:

DO NOT INDUCE VOMITING. Vomiting will cause further damage to the throat. Dilute by giving water or milk to drink if victim is conscious. **GET MEDICAL ATTENTION IMMEDIATELY.**

SECTION VI - REACTIVITY DATA

Stable under normal storage conditions.

STABILITY: INCOMPATIBILITY:

INCOMPATIBILITY: Bases, acids, amines, oxidizing agents HAZARDOUS DECOMPOSITION PRODUCTS: Refer to Section IV

CONDITIONS TO AVOID: Excess exposure at temperatures above 60C over long periods degrades

material

SECTION VII - SPILL OR LEAK PROCEDURE

IF MATERIAL IS SPILLED: Avoid contact with material. Persons not wearing appropriate protective equipment (see below) should be excluded from the area of spill until clean-up is complete. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on clay, diatomaceous earth or other absorbent and shoveled into disposal containers.

WASTE DISPOSAL METHOD: This product if disposed as shipped is not a hazardous waste as specified under 40 CFR 261. Controlled incineration or buried landfill disposal should be in accordance with all Federal, State & Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved respiratory protection required in the absence of proper environmental control. For emergencies, a self-contained breathing apparatus, or a full-face respirator is recommended. **VENTILATION:** Local, except if applied in enclosed space, in which case proper respiratory equipment (see above) must be worn.

HAND PROTECTION: Impervious gloves, neoprene or rubber.

EYE PROTECTION: Splash proof goggles or safety spectacles with side shields.

OTHER PROTECTIVE EQUIPMENT: Clean, body-covering clothing. Further safety equipment (apron, footwear, etc.) should be used as necessary to prevent contact with material.

SECTION IX - SPECIAL PRECAUTIONS

- 1. Prevent all skin and eye contact.
- 2. Re-seal part used containers.
- 3. Ensure that **all** containers are properly labeled to prevent accidental ingestion.
- 4. Wash with soap and water before eating, drinking, smoking or using toilet facilities.
- 5. Observe conditions of good industrial hygiene and safe working practice.

SECTION X – REGULATORY INFORMATION

WHMSIS INFORMATION: D2B - SKIN SENSITIZER

THE INFORMATION HEREIN RELATES TO THE PRODUCT NAMED AND IS BASED UPON INFORMATION INTERNATIONAL COATINGS CONSIDERS TO BE ACCURATE. NO WARRANTY EXPRESSED OR IMPLIED IS INTENDED.

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION February 2012

PRODUCT NAME: PRODUCT CLASS: PRODUCT TYPE:

Iron Guard Epoxy Resin Hardener, Part B Cycloaliphatic Amine Solution

.O.T. CATEGORY:		UN 2289 Isophorone	diamine 8 PG III			
ADDRESS:		International Co	International Coatings			
		Div. of Milamar Coati	•			
		311 N.W. 122 nd St. St				
		Oklahoma City, OK 73				
TELEPHONE:		405-755-8448	-			
EMERGENCY:		CHEM TEL 800-255-3	924			
	SE	ECTION II - HAZARD	OUS INGREDIEN	TS		
IFPA HAZARD RATINGS:						
	•		t(s) as defined in 49 CFR 172 and 29 CFR 1910 which are present in this product and			
			rdous substance list of any state.			
sophoronediamine Corro		CASRN 2855132 30				
mine Adduct Corrosive:			CASRN 68609085 26% max.			
Benzyl Alcohol Irritant:		CASRN 00100516 4	4.00 max.			
		SECTION III - PH	YSICAL DATA			
PPERANCE:		Clear Yellow Liquid				
DOR:		Ammonia-like				
HYSICAL PROPERTIES						
OILING POINT:		195°C				
		N/D				
PECIFIC GRAVITY:		1.020				
APOR DENSITY:		N/D				
ERCENT VOLATILES:		0 at 70°F				
VATER MISCIBILITY:		Negligible - < 0.1% 10-11				
<u>H:</u>		10-11				
	SECTIO	N IV - FIRE AND EXP	PLOSION HAZAR	D DATA		
LASH POINT:		•	>200°F (Setaflash Closed Cup).			
OWER FLAMMABLE LIMI		N/D				
IPPER FLAMMABLE LIMI	ſ:		N/D			
EXTINGUISHING MEDIA: Foam, Dry Chemical, Carbon Dioxide (CO ₂), Water UNUSUAL FIRE OR EXPLOSION HAZARDS (conditions to avoid): May produce hazardous fumes or hazardous						
	SION HAZAR	DS (conditions to avoid	I): May produce haz	ardous fumes or hazardous		
ecomposition products. AZARDOUS DECOMPOSI	TION PRODI	JCTS: NOx. CO. Nitric Aci	d fumes			
PECIAL FIRE FIGHTING P	ROCEDURES			uipment including self		
ontained breathing appara	atus.					
		SECTION V - HEALT	H HAZARD DATA			
Test Type	Result	Туре	Animal Species	Hazard Rank		
	>2.0	G/KG EST LD50	Rabbit	Slight		
Dermal Toxicity	POS	-	Rabbit	-		
Dermal Toxicity DOT Corrosivity	<u> </u>					
	<72	0 - 110 Range	Rabbit	Severe		
DOT Corrosivity	1 1	0 - 110 Range G/KG EST LD50	Rabbit Rat	Severe Moderate		
DOT Corrosivity Eye Irritation	<72					

FIRST AID RECOMMENDATIONS

SKIN AND EYE CONTACT:	Danger! Causes severe skin and eye irritation or burns. May cause permanent visual impairment. May cause skin sensitization. Avoid contact. Wear protective clothing and chemical goggles.
FIRST AID:	Immediately flush with water for at least 15 minutes while removing contaminated clothing. Call a physician.
INHALATION:	Caution! May cause irritation to upper respiratory tract. Avoid prolonged or repeated inhalation.
FIRST AID:	Move to fresh air. If symptoms persist, consult a physician.
ORAL INGESTION:	Danger! Do not take internally. May cause gastrointestinal irritation or ulceration. May cause burns to mouth or throat.

FIRST AID:

Do not induce vomiting. Give a large quantity of milk or water. Do not give fluids to an unconscious person. **Call a physician**.

OTHER:

No carcinogenicity, mutagenicity or teratogenicity effects are known. No effects of chronic exposure or target organ effects are known.

No exposure limits have been established for this product as formulated.

SECTION VI - REACTIVITY DATA

INCOMPATIBLE MATERIALS (Materials to avoid): Strong acids, bases and oxidizers

Product is stable under normal conditions.

Hazardous polymerization will not occur.

SECTION VII – SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IF SPILLED: Using recommended protective equipment, add dry material to absorb spill (if large spill, first dike to contain). Pick up and containerize. Flush area with dilute (5%) acetic acid. Collect rinsate for sewer or disposal.

WASTE DISPOSAL: This product, if disposed as shipped, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of it corrosivity. Dispose of in a licensed hazardous waste facility in accordance with applicable laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Local, except in confined spaces, e.g., tanks, in which case proper respiratory equipment (see below) is required.

PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED FOR NORMAL USE CONDITIONS:

EYE PROTECTION: SKIN PROTECTION: Full face shield and chemical goggles Rubber or plastic gloves

RESPIRATORY PROTECTION:

Respirator with organic vapor cartridge (N/A with local exhaust).

SECTION IX – SPECIAL PRECAUTIONS

1. Prevent all eye and skin contact

- 2. Corrosive materials; can cause skin sensitization
- 3. Reseal partially used containers. Store in cool, dry place.

4. Observe conditions of good hygiene and safe working practices

5. Wash with soap and water before eating, drinking, smoking or using the lavatory.

SECTION X - TRANSPORTATION

DOT PROPER SHIPPING NAME: DOT HAZARD CLASSIFICATION: IDENTIFICATION NUMBER: PACKAGING GROUP: LABELS REQUIRED: Isophoronediamine 8 UN 2289 III

Corrosive

SECTION XI – REGULATORY INFORMATION

WHMSIS CLASSIFICATION: Class E, Corrosive

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