# **MATERIAL SAFETY DATA SHEET**

### **SECTION I**

#### DATE OF PREPARATION June 2011

	June 2011				
PRODUCT NAME:	ICO - Guard Slurry				
PRODUCT CLASS:	Epoxy Resin, Part A				
PRODUCT TYPE:	4,4'-Isopropylidenediphenol Epichlorohydrin Resin				
D.O.T. CATEGORY:	Chemical, NOIBN				
ADDRESS:	International Coatings				
	Div. of Milamar Coatings, L.L.C.				
	311 N.W. 122 <sup>nd</sup> St. Ste. 100				
	Oklahoma City, OK 73114				
TELEPHONE:	405-755-8448				
EMERGENCY:	CHEM TEL 800-255-3924				
	SECTION II - HAZARDOUS INGREDIENTS				
	S: Health 1, Flammability 1, Reactivity 0				
	zardous 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:				
Depation nuclicated					
Reaction product of epic	chlorohydrin and bisphenol A - CAS# 025085-99-8 >75%				
	SECTION III - PHYSICAL DATA				
PHYSICAL STATE:	Moderate viscosity, amber liquid.				
SPECIFIC GRAVITY:	1-14 at 77°F.				
DENSITY:	9.5 lbs/gal				
SOLUBILITY: pH:	Negligible NA				
PERCENT VOLATILES:	0 at 70°F				
	SECTION IV - FIRE AND EXPLOSION HAZARD DATA				
FLASH POINT:	420°F (Pensky Martens Closed Cup)				
FLAMMABILITY LIMITS					
FL:	ΝΑ				
UFL:	NA				
<b>EXTINGUISHING DATA:</b>	Foam, Dry Chemical, Carbon Dioxide (CO2)				
	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					
HAZARDOUS DECOMPO	OSITION PRODUCTS: Mainly phenolics, CO and H2O				
	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 unlikely to result in material being absorbed into skin.				
INGESTION:	Single dose oral toxicity extremely low. No hazards anticipated from swallowing small				
INGESTION:	amounts incidental to normal handling.				
INHALATION:	Vapors are unlikely due to physical properties				
EMERGENCY AND FIRS					
EYES:	Immediately flush with large amounts of water for at least 15 minutes lifting upper and lower lids occasionally. <b>GET IMMEDIATE MEDICAL ATTENTION</b> . 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. <b>GET MEDICAL ATTENTION</b> if swelling or reddening occurs.				

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.

**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

**STABILITY:** 

#### **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 June 2011

**PRODUCT NAME: PRODUCT CLASS: PRODUCT TYPE:** D.O.T. CATEGORY:

## ICO – Guard Slurry

**Epoxy Resin Hardener, Part B Cycloaliphatic Amine Solution** UN 2289 Isophoronediamine 8 PG III **TELEPHONE:** 

**EMERGENCY:** 

## **International Coatings**

Div. of Milamar Coatings, L.L.C. 311 N.W. 122<sup>nd</sup> St. Ste. 100 Oklahoma City, OK 73114 405-755-8448 CHEM TEL 800-255-3924

#### SECTION II - HAZARDOUS INGREDIENTS

NFPA HAZARD RATINGS: Health 3, Flammability 1, Reactivity 1

Listed below are the hazardous component(s) as defined in 49 CFR 172 and 29 CFR 1910 which are present in this product and all components which appear on the hazardous substance list of any state.

**Isophoronediamine Corrosive:** CASRN 2855132 30% max. Amine Adduct Corrosive: CASRN 68609085 26% max. **Benzyl Alcohol Irritant:** CASRN 00100516 44.00 max.

### **SECTION III - PHYSICAL DATA**

APPERANCE:	Clear Yellow Liquid
ODOR:	Ammonia-like
PHYSICAL PROPERTIES	
BOILING POINT:	195°C
MELTING POINT:	N/D
SPECIFIC GRAVITY:	1.020
VAPOR DENSITY:	N/D
PERCENT VOLATILES:	0 at 70°F
WATER MISCIBILITY:	Negligible - < 0.1%
pH:	10-11

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: LOWER FLAMMABLE LIMIT: **UPPER FLAMMABLE LIMIT: EXTINGUISHING MEDIA:** 

>200°F (Setaflash Closed Cup). N/D

N/D

Foam, Dry Chemical, Carbon Dioxide (CO<sub>2</sub>), Water

UNUSUAL FIRE OR EXPLOSION HAZARDS (conditions to avoid): May produce hazardous fumes or hazardous decomposition products.

HAZARDOUS DECOMPOSITION PRODUCTS: NOx, CO, Nitric Acid fumes

SPECIAL FIRE FIGHTING PROCEDURES: When fire fighting, wear full protective equipment including self

#### contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA						
Test Type	Result	Туре	Animal Species	Hazard Rank		
Dermal Toxicity	>2.0	G/KG EST LD50	Rabbit	Slight		
DOT Corrosivity	POS	-	Rabbit	-		
Eye Irritation	<72	0 - 110 Range	Rabbit	Severe		
Oral Toxicity	>.5	G/KG EST LD50	Rat	Moderate		
Skin Irritation	4.96	0-8 Range	Rabbit	Severe		
LC(50) - N/D						

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#### ICO Guard Slurry Hardener, Part B

#### 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. Danger! Do not take internally. May cause gastrointestinal irritation or ulceration. May **ORAL INGESTION:** 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.

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

RESPIRATORY PROTECTION:

Rubber or plastic gloves 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 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.