

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE OF PREPARATION

June 2011

**PRODUCT NAME:** ICO Glaze Top Coat XFC  
**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

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:

NONE

## SECTION III - PHYSICAL DATA

**PHYSICAL STATE:** Moderate viscosity, amber liquid.  
**SPECIFIC GRAVITY:** 1.44 at 77°F  
**DENSITY:** 12 lbs/gal  
**PERCENT VOLATILES:** 0 at 70°F

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** 420°F (Pensky Martens Closed Cup)  
**EXTINGUISHING DATA:** Foam, Dry Chemical, Carbon Dioxide (CO<sub>2</sub>)  
**NOTE:** Toxic fumes will be evolved when this material is involved in a fire. Self-contained breathing apparatus should be available for Fire fighters. Cool-fire exposed containers with water.

## SECTION V - HEALTH HAZARD DATA

### EFFECTS OF OVEREXPOSURE:

**ACUTE:** May cause burns to skin and eyes. High concentration of vapors can cause severe irritation of eyes and respiratory tract. Liquid causes damage to mucous membranes if swallowed.  
**CHRONIC:** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.  
**EMERGENCY AND FIRST AID PROCEDURES:**  
**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.  
**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

**STABILITY:** Stable under normal storage conditions.  
**INCOMPATIBILITY:** Avoid contact with strong oxidizing agents, mineral acids (e.g. H<sub>2</sub>SO<sub>4</sub>, HCL), and epoxy resins under uncontrolled conditions.  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
CO (Carbon Monoxide)      CO<sub>2</sub> (Carbon Dioxide)      NO<sub>x</sub> (Oxides of Nitrogen)

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

**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:**

**ICO Glaze Top Coat XFC**

**PRODUCT CLASS:** Epoxy Resin Hardener, Part B  
**PRODUCT TYPE:** Modified polyamine  
**D.O.T. CATEGORY:** UN 3267 Corrosive liquid, Basic, Organic N.O.S. (Aminoethylpiperazine, 4-Nonylphenol) 8 PG III  
**ADDRESS:** **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  
**TELEPHONE:**  
**EMERGENCY:** CHEM TEL 800-255-3924

## SECTION II - HAZARDOUS INGREDIENTS

**NFPA HAZARD RATINGS:** - Health 2, Flammability 1, Reactivity 1

<u>Ingredient</u>	<u>CAS #</u>	<u>Maxi Content</u>	<u>TLV</u>	<u>PEL</u>	<u>LD 50/ Oral</u>	<u>LD50/Dermal</u>
Polyoxypropylene- diamine	9046-10-0	10%	NE	NE	1.6/kg	>60mg/kg
N- Aminoethyl Piperazine	140-31-8	40%	NE	NE	>2.3/kg	<2g/kg
1,2 - Cyclohexanediamine	694-83-7	5%	NE	NE	2.3/kg	NE

## SECTION III - PHYSICAL DATA

**PHYSICAL STATE:** Low Viscosity, amber color  
**SPECIFIC GRAVITY:** 1.0 at 77°F  
**DENSITY:** 8.5 lbs/gal at 77°F  
**ODOR:** Amine  
**VAPOR PRESSURE:** Less than 1 mm Hg @ 68°F  
**PERCENT VOLATILES:** 0 AT 70°F

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >200°F (Setaflash Closed Cup)  
**LFL:** No data  
**UFL:** No data  
**EXTINGUISHING MEDIA:** Water fog, Alcohol Foam, CO<sub>2</sub>, Dry Chemical  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use a positive pressure, self-contained breathing apparatus. Wear full protection coating.  
**Note:** Will burn under right conditions of heat and oxygen supply.

## SECTION V - HEALTH HAZARD DATA

**PERMISSIBLE EXPOSURE LIMITS** None established  
**EFFECTS OF OVER EXPOSURE**  
**INHALATION:** May cause nasal irritation, central nervous system depression or lung injury.  
**EYES:** This product can cause chemical burns to eyes. Eye damage may be irreversible.  
**SKIN:** May be corrosive or highly irritating to the skin. Repeated contact may cause sensitization and/or dermatitis.  
**FIRST AID**  
**EYES:** Flush with water for at least 15 minutes. **GET MEDICAL ATTENTION.**  
**SKIN:** Wash thoroughly with water. Remove contaminated clothing and shoes. Wash clothing before re-use. Get medical attention if effects such as swelling or reddening occur.  
**INHALATION:** Remove to fresh air if effects occur and administer oxygen if necessary. **GET MEDICAL ATTENTION.**  
**INGESTION:** **GET MEDICAL ATTENTION IMMEDIATELY.** Do not induce vomiting unless directed by physician.

## SECTION VI - REACTIVITY DATA

**STABILITY:** Stable under normal storage conditions.  
**INCOMPATIBILITY:** Avoid bringing into contact with strong oxidizing agents, and strong Lewis or Mineral acids, bases  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
 CO (Carbon Monoxide)      CO<sub>2</sub> (Carbon Dioxide)      Acids      Aldehydes

## SECTION VII - SPILL OR LEAK PROCEDURE

### STEPS TO TAKE IF SPILLED:

Using adequate 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:

Product is classified as "corrosive" and as such must be disposed of as a hazardous waste according to Federal, State and Local regulations.

## SECTION VIII - SPECIAL PRECAUTION 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:** Chemical goggles.

**SKIN PROTECTION:** Rubber or plastic gloves.

**RESPIRATORY PROTECTION:** Respirator with organic vapor cartridge N/A with local exhaust.

## SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep container tightly closed when not in use. Store in a dry location.

## SECTION X - TRANSPORTATION

<b>DOT PROPER SHIPPING NAME:</b>	Corrosive liquid, Basic, Organic N.O.S. (Aminoethylpiperazine, 4-Nonylphenol)
<b>DOT HAZARD CLASSIFICATION OR DIVISION:</b>	8
<b>IDENTIFICATION NUMBER:</b>	UN 3267
<b>PACKAGING CLASS:</b>	III
<b>LABELS REQUIRED:</b>	Corrosive

## SECTION XI - REGULATORY INFORMATION

**WHMSIS CLASSIFICATION** - Class E, Corrosive

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