

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE OF PREPARATION

Junel 2011

**PRODUCT NAME:** ICO Guard Coating 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:** 170°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:** High concentrations of vapor cause irritation of eyes and respiratory tract. May cause burns to skin and eyes. 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:** Flush with water for at least 15 minutes, holding eyelids open. **GET MEDICAL ATTENTION.**  
**SKIN:** Wash thoroughly with water while removing contaminated clothing and shoes. Wash clothing before re-use and discard contaminated leather articles. **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** if effects persist.  
**INGESTION:** **GET MEDICAL ATTENTION IMMEDIATELY** Do not induce vomiting.  
**STABILITY:** Stable under normal storage conditions.

## 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

### HAZARDOUS DECOMPOSITION PRODUCTS:

CO ( Carbon Monoxide)

CO<sub>2</sub> (Carbon Monoxide)

Acids

Aldehydes

## 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:** Dispose of as hazardous waste in accordance with Federal, State and 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:** Breathing of vapors must be avoided. Ventilation must be sufficient to control vapors. This material should be confined as far as possible within sealed or covered equipment in which case normal ventilation should be adequate. Special (local) ventilation will be needed in areas where vapors are expected to be vented

**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 Guard Coating XFC  
**PRODUCT CLASS:** Epoxy Resin Hardener, Part B  
**PRODUCT TYPE:** Modified Aliphatic Amine  
**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  
**TELEPHONE:** 405-755-8448  
**EMERGENCY:** CHEM TEL 800-255-3924

## SECTION II - HAZARDOUS INGREDIENTS

**NFPA HAZARD RATINGS** Health 3, Flammability 2, Reactivity 1, Other Corrosive

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.

**Aminoethylpiperazine Corrosive, Toxic:**CASRN 00140318 <40.00%

Toxic corrosive, Harmful if swallowed, inhaled or absorbed through skin. Highly corrosive to eyes, skin, and mucous membranes. Exposure limits: none established.

Ref. RTECS #TK8050000.

**Bisphenol A Irritant:**CASRN 00080057 <15% +/-00

Irritant. May be harmful by inhalation, ingestion or skin absorption. Exposure limits: none established.

REF. RTECS #SL6300000. Sara 313 list

**PRODUCT DESCRIPTION:** REF.RTECS #DN3150000

**NONYLPHENOL IRRITANT:**CASRN84852153 15.00+/-00 Irritant-Severely irritating to eyes and skin

Exposure limits: None established REF.RTECS #SM5600000

## SECTION III - PHYSICAL DATA

**APPEARANCE:** Clear Yellow Liquid  
**ODOR** Ammonia-like  
**PHYSICAL PROPERTIES**  
**BOILING POINT** N/A  
**MELTING POINT** N/D  
**SPECIFIC GRAVITY** 1.0  
**VAPOR DENSITY** N/D  
**PERCENT VOLATILES** 0 at 70°F  
**WATER MISCIBILITY** Moderate 1-10%

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >178°F (Setaflash Closed Cup).

**LOWER FLAMMABLE LIMIT:** N/D

**UPPER FLAMMABLE LIMIT:** N/D

**EXTINGUISHING MEDIA:** 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:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** When fire fighting, wear full protective equipment including self contained breathing apparatus.

## SECTION V - HEALTH HAZARD DATA

Test Type	Result	Type	Animal Species	Hazard Rank
Dermal Toxicity	POS		Rabbit	Moderate
Eye Irritation	<72	0-110 Range	Rabbit	Serious
Oral Toxicity	>.5	G/KG EST LD50	Rat	Moderate
Skin Irritation	4.96	0-8 Range	Rabbit	Severe

LC(50) - N/D

**FIRST AID RECOMMENDATIONS**

**SKIN AND EYE CONTACT:** **Danger!** Causes severe skin and eye irritation or burns. Do not get product in eyes, on skin or clothing. Wear recommended protective equipment. Wash thoroughly after handling.

**FIRST AID:** Immediately flush with water for at least 15 minutes while removing contaminated clothing. **Call a physician.**

**INHALATION:** **Caution!** May be harmful if inhaled. Do not inhale product. Keep container closed. Use only with adequate ventilation.

**FIRST AID:** Move to fresh air. If breathing is difficult, give oxygen. **CALL A PHYSICIAN**

**ORAL INGESTION: CAUTION:** May be harmful if swallowed. Wash thoroughly after handling.

**FIRST AID:** If swallowed, immediately drink a large quantity of milk or water and 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)** Oxidizers

Product is stable under normal conditions.

Hazardous polymerization will not occur.

**SECTION VII - SPILL OR LEAK PROCEDURE**

**STEPS TO TAKE 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, is classified as corrosive and as such must be disposed of according to Federal, State and local regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**VENTILATION REQUIREMENTS:** Local

**PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED FOR NORMAL USE CONSIONS:**

**EYE PROTECTION:** Chemical goggles

**SKIN PROTECTION:** Rubber or plastic gloves

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

**SECTION IX - TRANSPORTATION**

**DOT PROPER SHIPPING NAME:** Corrosive liquid, Basic, Organic N.O.S. (Aminoethylpiperazine, 4-Nonylphenol)

**DOT HAZARD CLASSIFICATION OR DIVISION:** 8

**IDENTIFICATION NUMBER:** UN 3267

**PACKAGING GROUP:** III

**LABELS REQUIRED:** Corrosive

**SETION X – REGULATORY INFORMATION**

**WHMSIS CLASSIFICATION** Class E, Corrosive

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