

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE OF PREPARATION

June 2011

**PRODUCT NAME:** **ICO Sealer 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. Suite 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:** 1-14 at 77°F.  
**DENSITY:** 9.5 lbs/gal  
**SOLUBILITY:** Negligible  
**ODOR:** Faint epoxy  
**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>)  
**FLAMMABILITY LIMITS:** LFL: NA UFL: NA  
**FIRE FIGHTING INSTRUCTIONS:** Use water spray to cool fire-exposed containers until fire is out. Wear positive pressure, self-contained breathing apparatus and full protective equipment.  
**HAZARDOUS COMBUSTION PRODUCTS:** Mainly phenolics, CO and H<sub>2</sub>O; hence, thermal decomposition products should be treated as potentially hazardous substances.

## SECTION V - HEALTH HAZARD DATA

### EFFECTS OF OVEREXPOSURE:

**EYE:** May cause temporary eye irritation. Corneal injury unlikely.  
**SKIN:** Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. Has caused allergic skin reactions in humans. A single prolonged exposure is not likely to result in material being absorbed into skin.  
**INGESTION:** Single dose oral toxicity is extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling.  
**INHALATION:** Unlikely due to absence of vapors.  
**SYSTEMIC (OTHER TARGET ORGAN EFFECTS):**  
Except for skin sensitization, repeated exposures not anticipated to cause any significant adverse effects.

### 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:** Get medical attention immediately. Induce vomiting immediately by depressing back of tongue or drinking copious quantities of salt water.

**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:** See Section IV

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

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** No respiratory protection should be needed.

**VENTILATION:** Local

**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.

**EXPOSURE GUIDELINES:** None established.

**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 CLASSIFICATION:** 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:** **ICO Sealer XFC**  
**PRODUCT CLASS:** Epoxy Resin Hardener, Part B  
**PRODUCT TYPE:** Amine Curing Agent  
**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. Suite 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 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.

Ingredient	CAS#
Nonyl-Phenol	84852-15-3
M-Xylenediamine	1477-55-0
Isophoronediamine	2855-13-2

## SECTION III - PHYSICAL DATA

**APPEARANCE:** Clear Yellow  
**ODOR:** Ammonia-like  
**PHYSICAL PROPERTIES:**  
**BOILING POINT:** 247 °C  
**MELTING POINT:** ND  
**SPECIFIC GRAVITY:** 1.00.  
**PERCENT VOLATILES:** 0 at 70 °F  
**VAPOR DENSITY:** ND  
**WATER MISCIBILITY:** Slight - .1 to 1%

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >200°F (Setaflash Closed Cup)  
**EXTINGUISHING DATA:** Water, Foam, Dry Chemical, Carbon Dioxide (CO<sub>2</sub>)  
**FLAMMABILITY LIMITS:** LFL: NA UFL: NA  
**UNUSUAL FIRE OR EXPLOSION HAZARDS (CONDITIONS TO AVOID):** May produce hazardous fumes or hazardous decomposition products  
**HAZARDOUS COMBUSTION PRODUCTS:** None known to ICO  
**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
LC(50)	N/D	LC(50)	N/D

**SKIN AND EYE CONTACT:** Causes severe skin and eye irritation or burns. May cause permanent visual impairment. Wear protective clothing and chemical goggles.

May cause skin sensitization. Avoid contact.

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

**INHALATION:** Excessive inhalation can cause respiratory irritation.

**FIRST AID:** Move to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, administer artificial respiration and seek emergency medical assistance.

**ORAL INGESTION: Danger! Do not take internally.** May cause gastrointestinal irritation, burns or ulceration. May cause burns of 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)** Oxidizers

Product stable under normal conditions

Hazardous polymerization will not occur

## SECTION VII - SPILL OR LEAK PROCEDURE

**IF MATERIAL IS 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 its corrosivity. Dispose of in a licensed hazardous waste facility in accordance with applicable laws.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

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

**VENTILATION:** Local

**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.

**EXPOSURE GUIDELINES:** None established.

## 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 - 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

## SECTION X - 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.**