

# MATERIAL SAFETY DATA SHEET

## SECTION I

Date of Preparation  
June 2011

**PRODUCT NAME:** ICO Primer LV FC  
**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

**NFPA HAZARD RATINGS:** Health 1, Flammability 1, Reactivity 0

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, pale yellow liquid  
**SPECIFIC GRAVITY:** 1.15 at 77°F  
**DENSITY:** 9.6 lbs/gal  
**SOLUBILITY:** Negligible  
**ODOR:** Faint epoxy  
**PERCENT VOLATILES:** 0 at 70°F

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT** 485°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 reaction 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 operations.  
**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:** Flush with water for at least 15 minutes, holding eyelid 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** Induce vomiting immediately by depressing back of tongue with a finger or drinking one or more glasses of salt water.

**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:** 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 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:**

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**

**WHMIS 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:** **ICO Primer LV FC**  
**PRODUCT CLASS:** Epoxy Resin Hardener, Part B  
**PRODUCT TYPE:** Modified amines  
**D.O.T. CATEGORY:** UN 2815 N-Aminoethylpiperazine 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

Ingredients	CAS#	Max Content	TLV	PEL	Exposure Limit-LD 50 Oral
<b>LD50 Dermal</b>					
Polyoxypropylenediamine	9046-10-0	10%	NE	NE	1.6/kg
>60mg/kg					
N-aminoethylpiperazine	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:** 1.03 at 77°F  
**DENSITY:** 8.5 lbs/gal at 77° F  
**ODOR:** Slightly ammoniated  
**VAPOR PRESSURE:** Less than 1mm Hg at 68° F  
**PERCENT VOLATILES:** 0 AT 70° F

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >200°F (Pensky Martens Closed Cup)  
**LFL:** ND  
**UFL:** ND  
**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 LEVEL:** 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 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, 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(Materials to Avoid):** Avoid bringing in to contact with strong oxidizing agents and strong Lewis or Mineral acids, bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

CO (Carbon Monoxide)

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

Acid

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 disposal.

**WASTE DISPOSAL:**

This product, if disposed as shipped, is a hazardous waste as specified in 40 CFR 261 on the basis of its corrosivity. Consult state or local officials for proper disposal method.

**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:** Chemical goggles

**SKIN PROTECTION:** Rubber or plastic gloves

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

**SECTION IX - SPECIAL PRECAUTIONS**

**STORAGE:** Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feed.

**HANDLING:** Avoid contact with skin, eyes and clothing. Do not breathe fumes/spray. Handle in well ventilated work. space.

**OTHER PRECAUTIONS:** Emergency showers and eye wash stations should be readily accessible.

**SECTION X - TRANSPORTATION**

**DOT PROPER SHIPPING NAME:** N-Aminoethylpiperazine

**DOT HAZARD OR CLASSIFICATION** 8

**IDENTIFICATION NUMBER** UN 2815

**PACKAGING GROUP:** III

**LABELS REQUIRED:** Corrosive

**SECTION XI – REGULATORY INFORMATION**

**WHMSIS CLASSIFICATION** Class E, Corrosive

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