

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE OF PREPARATION

June 2011

**PRODUCT NAME:** ICO Hi Guard Coating GF FC  
**PRODUCT CLASS:** Epoxy Resin Part A  
**PRODUCT TYPE:** Polymers of epichlorohydrin, phenol-formeldehyde novolac  
**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, amber liquid  
**SPECIFIC GRAVITY:** 1.1 at 77°F  
**DENSITY:** 9 lbs/gal  
**SOLUBILITY:** Negligible  
**ODOR:** Slight Aromatic  
**PERCENT VOLATILES:** 0 AT 70 ° F  
**pH:** N.A.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** 480°F (Pensky Martens Closed Cup)  
**EXTINGUISHING DATA:** Foam, Dry chemical, Carbon Dioxide (CO<sub>2</sub>)  
**FLAMMABILITY CLASSIFICATION:** Combustible Liquid, Class IIIB  
**LOWER EXPLOSIVE LIMITS:** N.A.  
**FIRE FIGHTING INSTRUCTIONS:** Use self-contained breathing apparatus and full protective equipment  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes, CO, CO<sub>2</sub>, acrid smoke, phenolics, aldehydes

## SECTION V - HEALTH HAZARD DATA

### EFFECTS OF OVEREXPOSURE:

**ACUTE:** High concentrations of vapor cause irritation of eyes and respiratory tract.  
**CHRONIC:** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.  
**EYE:** Will cause moderate eye irritation  
**INHALATION:** Unlikely except at elevated temperature; may cause allergic reaction  
**SKIN ABSORPTION:** Not likely  
**SKIN CONTACT:** Possible skin irritant  
**INGESTION:** Will cause illness  
**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.

**SECTION VI - REACTIVITY DATA**

**STABILITY:** Stable under normal storage conditions.  
**INCOMPATIBILITY:** Avoid bringing into contact with strong oxidizing agents, bases and 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** None, needed, unless applied in a confined space in which case a NIOSH-approved, positive-pressure, supplied air respirator should be used.

**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.

**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:** **ICO Hi Guard Coating GF FC**  
**PRODUCT CLASS:** Epoxy Resin Hardener, Part B  
**PRODUCT TYPE:** Modified Polyamine  
**D.O.T. CATEGORY:** UN 2735 Amines, Liquids Corrosive, N.O.S. (1,3-Cyclohexanedimethanamine xylenediamine) 8 PG II  
**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 RATINGS:** Health, 3; Flammability, 1; Reactivity, 0;

**Ingredient**

Meta-Xylene Diamine

**Concentration**

27%

**Exposure Limits**

PEL: 0.1 mg/m<sup>3</sup> (ceiling)

PEL: Skin Designation

TLV: 0.1 mg/m<sup>3</sup> (ceiling)

Proprietary (non-hazardous)

Balanced

None Established

## SECTION III - PHYSICAL DATA

**APPEARANCE:** Clear to Light Yellow  
**ODOR:** Ammonia-like  
**PHYSICAL PROPERTIES**  
**BOILING POINT:** 195 °C  
**MELTING POINT:** ND  
**SPECIFIC GRAVITY** 1.00  
**VAPOR DENSITY:** ND  
**PERCENT VOLATILES:** 0 at 70 °F.  
**WATER MISCIBILITY:** Slight - .1 to 1%

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >200° F (Setaflash Closed Cup).  
**LOWER FLAMMABLE LIMIT:** N/D  
**UPPER FLAMMABLE LIMIT:** N/D  
**EXTINGUISHING MEDIA:** Water, Foam, Dry Chemical, Carbon Dioxide (CO<sub>2</sub>).  
**UNUSUAL FIRE OR EXPLOSION HAZARDS (Conditions to avoid):** May produce hazardous fumes or hazardous decomposition products.  
**HAZARDOUS DECOMPOSITION 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 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:** 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 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, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of its corrosivity. Consult state or local officials for proper disposal methods.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**VENTILATION REQUIREMENTS:** Local,

**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**

Do not handle or use product until safety precautions recommended in this data sheet have been read and fully understood.

**SECTION X - TRANSPORTATION**

**DOT PROPER SHIPPING NAME:** Amines, Liquids Corrosive, N.O.S.  
(1,3-Cyclohexanedimethanamine xylenediamine)

**DOT HAZARD CLASSIFICATION OR DIVISION:** 8

**IDENTIFICATION NUMBER:** UN 2735

**PACKAGING GROUP:** II

**LABELS REQUIRED:** Corrosive

**SECTION XI - REGULATORY INFORMATION**

**WHMSIS CLASSIFICATION** Class E, Corrosive

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