

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION

June 2011

PRODUCT NAME: ICO Glaze Top Coat 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. 122nd 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 (CO₂)
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. H₂SO₄, HCL), and epoxy resins under uncontrolled conditions.
HAZARDOUS DECOMPOSITION PRODUCTS:
CO (Carbon Monoxide) CO₂ (Carbon Dioxide) NO_x (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 FC

PRODUCT CLASS: Epoxy Resin Hardener, Part B
PRODUCT TYPE: Modified polyamine
D.O.T. CATEGORY: UN 1760 Corrosive liquid, N.O.S. (Amine Mixture) 8 PG III
ADDRESS: **International Coatings**
Div. of Milamar Coatings, L.L.C.
311 N.W. 122nd 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>Maxl 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, CO₂, 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) CO₂ (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

DOT PROPER SHIPPING NAME:	Corrosive liquid, N.O.S.(Amine Mixture)
DOT HAZARD CLASSIFICATION OR DIVISION:	8
IDENTIFICATION NUMBER:	UN 1760
PACKAGING CLASS:	III
LABELS REQUIRED:	Corrosive

SECTION XI - REGULATORY INFORMATION

WHMSIS CLASSIFICATION - Class E, Corrosive

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