

MATERIAL SAFETY DATA SHEET

SECTION I

Date of Preparation
June 2011

PRODUCT NAME: **ICO Gel 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. 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: 1.18 at 77°F
DENSITY: 9.9 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: High concentration of vapor causes irritation of eyes and respiratory tract.
CHRONIC: Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic reactions.

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

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) CO₂(Carbon Dioxide) 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: This product if disposed as shipped is not a hazardous waste as specified under 40CFR 261. Controlled incineration or buried landfill should be in accordance with all Federal, State and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved respiratory protection required in the absence of Local ventilation.

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. 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 Gel XFC**
PRODUCT CLASS: Epoxy Resin Hardener, Part B
PRODUCT TYPE: Modified Polyamine
D.O.T. CATEGORY: UN 1760 Corrosive Liquids, N.O.S. (Modified Polyamines) 8 PG III
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

NFPA HAZARD RATING: Health 3, Flammability 1, 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.

Exposure Limits

Nonylphenol:	CASRN 84852153	55.00+/-5	N/A
	Irritant to eyes and skin		
Metaxylenediamine:	CASRN 1477550	35.00+/-5	PEL: 0.1mg/ m ³ (TWA)
	Corrosive to skin. Irritant to eyes and skin		
Amine adduct:	CASRN 68738772	10% +/-2	N/A
	Corrosive		

SECTION III - PHYSICAL DATA

APPEARANCE: Clear yellow
ODOR: Ammonia
PHYSICAL PROPERTIES
BOILING POINT: ND
MELTING POINT: ND
VAPOR DENSITY: ND
WATER MISCIBILITY: Moderate – 1 to 10%
PERCENT VOLATILES: 0 AT 70 °F
SPECIFIC GRAVITY: 1.005
pH: 10-11

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200°F (Pensky Martens Closed Cup)
LFL: ND
UFL: ND
EXTINGUISHING MEDIA: Foam, Dry Chemicals, Carbon Dioxide (CO₂), Water
UNUSUAL FIRE OR EXPLOSION HAZARDS (Conditions to avoid): May produce hazardous fumes or hazardous decomposition products.
HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, NO_x, CO, Acrid smoke
SPECIAL FIRE FIGHTING PROCEDURES: When fire fighting, wear full protective equipment including self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

Test type	Result	Animal Species	Hazard Rank
LC (50)-	ND		
LD (50)-	ND		

SKIN AND EYE CONTACT:	Can cause severe skin and eye irritation or burns. May cause permanent visual impairment. Not considered toxic by skin absorption but prolonged exposure may result in absorption of harmful amounts. Wear protective clothing and chemical goggles.
FIRST AID:	Immediately flush with water for at least 15 minutes while removing contaminated clothing. Call a physician
INNHALATION:	Excessive inhalation can cause respiratory irritation, dizziness, nausea, headache, unconsciousness or asphyxiation.
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 nausea, vomiting or diarrhea.
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 or teratogenicity effects are known. Polyethylene amines are suspected mutagens. Chronic over exposure may cause liver, kidney or brain damage. No exposure limits have been established for this product as formulated.

SECTION VI - REACTIVITY DATA

INCOMPATIBILITY (Materials to Avoid): Oxidizers, high heat, amines, strong acid bases. Product is stable under normal conditions

HAZARDOUS DECOMPOSITION PRODUCTS: See section IV. Hazardous polymerization will not occur

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:

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 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

1. Prevent all eye and skin contact
2. Corrosive – may cause severe skin reaction
3. Reseal partially used containers and store in cool dry place away from strong oxidizing agents.
4. Observe conditions of good industrial hygiene and safe working practices.
5. Wash hands before eating, drinking or smoking.

SECTION X - TRANSPORTATION

DOT PROPER SHIPPING NAME:	Corrosive Liquids, N.O.S. (Modified Polyamines)
DOT HAZARD OR CLASSIFICATION:	8
IDENTIFICATION NUMBER:	UN 1760
PACKAGING GROUP:	III
LABELS REQUIRED:	Corrosive
WHMSIS CLASSIFICATION:	Class E, Corrosive

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