

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION

June 2011

PRODUCT NAME: ICO Caulk 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: 1.17 at 77 °F.
DENSITY: 9.8 lbs/gal
PERCENT VOLATILES: 0 at 70 °F

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 380 °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 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 in confined spaces, i.e., tanks in which case proper respiratory protection (see above) required.

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 Caulk FC**
PRODUCT CLASS: Epoxy Resin Hardener, Part B
PRODUCT TYPE: Modified Aliphatic Polyamine
D.O.T. CATEGORY: UN 1760 Corrosive Liquids, N.O.S. (Modified Polyamines) 8 PG III
ADDRESS: **International Coatings**
DIVISION OF MILAMAR COATINGS, L.L.C.
311 N.W. 122nd 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 2, 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 Irritant to eyes and skin.	NA
Metaxylene Diamine:	CASRN 1477550 35.00 +/- 5 Corrosive to skin, Irritant to eyes and skin.	PEL :0.1 mg/m ³ (TWA) 0.1mg/m ³ (ceiling)
Amine Adduct:	CASRN 68738772 10% +/- 2 Corrosive	NA

SECTION III - PHYSICAL DATA

Appearance: Clear Yellow
Odor: Ammonia
Physical Properties:
Boiling Point: N/D
Melting Point: N/D
Specific Gravity: 1.005
Vapor Density: N/D
Percent Volatiles: 0 at 70° F.
Water Miscibility: Moderate - 1 to 10%

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 (CO₂).
Unusual fire or explosion hazards (conditions to avoid):
May produce hazardous fumes or hazardous decomposition products.
Hazardous decomposition products: N/A
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	-	-
LD(50)	N/D	-	-

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 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.

Inhalation: 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

Incompatible materials (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 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

Ventilation requirements: Local, except if applied in confined spaces, where proper respiratory protection 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 partly 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 liquid, N.O.S. (Modified Polyamines)

DOT Hazard Classification or division: 8

Identification number: UN 1760

Packaging group: III

Labels required: Corrosive

SECTION XI – REGULATORY INFORMATION

WHMIS Classification – Class E Corrosive

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