

# MATERIAL SAFETY DATA SHEET

## SECTION I

Date of Preparation  
June 2011

**PRODUCT NAME:** **ICO Gel Cold Cure**  
**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

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:** 9.9lbs/gal  
**PERCETN 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 (CO<sub>2</sub>)  
**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 cause irritation of eyes and respiratory tract.  
**CHRONIC:** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.

### 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:

CO (Carbon Monoxide)      CO<sub>2</sub> (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**

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE OF PREPARATION

June 2011

**PRODUCT NAME:** **ICO Gel Cold Cure**  
**PRODUCT CLASS:** Epoxy Resin Hardener, Part B  
**PRODUCT TYPE:** Modified Polyamine  
**D.O.T. CATEGORY:** UN 3267 Corrosive liquid, Basic, Organic N.O.S (Aminoethylpiperazine, 4-Nonylphenol) 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

**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.

<b>Nonylphenol:</b>	CASRN 84852153 55.00 +/- 5 Irritant to eyes and skin.	<u><b>Exposure Limits</b></u> NA
<b>Meta Xylene Diamine:</b>	CASRN 1477550 35.00 +/- 5 Corrosive to skin, Irritant to eyes and skin.	PEL :0.1 mg/m <sup>3</sup> (TWA) 0.1mg/m <sup>3</sup> (ceiling)
<b>Amine Adduct:</b>	CASRN 68738772 10% +/- 2 Corrosive	NA

## SECTION III - PHYSICAL DATA

**APPEARANCE:** Clear Yellow  
**ODOR:** Ammonia  
**PHYSICAL PROPERTIES:**  
**BOILING POINT:** ND  
**MELTING POINT:** ND  
**SPECIFIC GRAVITY:** 1.005  
**VAPOR DENSITY:** ND  
**PERCENT VOLATILES:** 0 at 70 DEG F.  
**WATER MISCIBILITY:** Moderate - 1 to 10%  
**pH:** 10-11

## 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:** Fumes, NO<sub>x</sub>, 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 Type	Animal Species	Hazard Rank
LC(50)	N/D	LD(50)	N/D

<b>SKIN AND EYE CONTACT:</b>	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.
<b>FIRST AID:</b>	Immediately flush with water for at least 15 minutes while removing contaminated clothing. <b>Call a physician.</b>
<b>INHALATION:</b>	Excessive inhalation can cause respiratory irritation, dizziness, nausea, headache, unconsciousness, or asphyxiation.
<b>FIRST AID:</b>	Move to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, administer artificial respiration and seek emergency medical assistance.
<b>ORAL INGESTION:</b>	Do not take internally. May cause gastrointestinal irritation, burns or ulceration. May cause nausea, vomiting or diarrhea.
<b>FIRST AID:</b>	Do not induce vomiting. Give a large quantity of milk or water. Do not give fluids to an unconscious person. <b>Call a physician.</b>
<b>OTHER:</b>	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 acids, bases  
Product is stable under normal conditions.  
Hazardous polymerization will not occur.  
Hazardous decomposition products: See Section IV

## 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 a 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, smoking

## SECTION X - TRANSPORTATION

<b>DOT PROPER SHIPPING NAME:</b>	Corrosive liquid, Basic, Organic N.O.S Aminoethylpiperazine, Nonylphenol)
<b>DOT HAZARD CLASSIFICATION OR DIVISION:</b>	8
<b>IDENTIFICATION NUMBER:</b>	UN 3267
<b>PACKAGING GROUP:</b>	III
<b>LABAELS REQUIRED:</b>	Corrosive

## SECTION XI – REGULATORY INFORMATION

**WHMSIS CLASSIFICATION** – Class E - corrosive.

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