

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION

June 2011

PRODUCT NAME: **ICO - Sealer**
PRODUCT CLASS: Epoxy Resin, Part A
PRODUCT TYPE: 4,4'-Isopropylidenediphenol Epichlorohydrin Resin
D.O.T. CATEGORY: Chemical, NOIBN
ADDRESS: **International Coatings**
2925 Lucy Lane
Franklin Park, IL 60131
TELEPHONE: 847-451-0279
EMERGENCY: 800-535-5053

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: 1-14 at 77°F.
DENSITY: 9.5 lbs/gal
SOLUBILITY: Negligible
ODOR: Faint epoxy
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)
FLAMMABILITY LIMITS: LFL: NA UFL: NA
FIRE FIGHTING INSTRUCTIONS: Use water spray to cool fire-exposed containers until fire is out. Wear positive pressure, self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS: Mainly phenolics, CO and H₂O; hence, thermal decomposition products should be treated as potentially hazardous substances.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

EYE: May cause temporary eye irritation. Corneal injury unlikely.
SKIN: Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. Has caused allergic skin reactions in humans. A single prolonged exposure is not likely to result in material being absorbed into skin.
INGESTION: Single dose oral toxicity is extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling.
INHALATION: Unlikely due to absence of vapors.
SYSTEMIC (OTHER TARGET ORGAN EFFECTS):
Except for skin sensitization, repeated exposures not anticipated to cause any significant adverse effects.

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: Get medical attention immediately. Induce vomiting immediately by depressing back of tongue or drinking copious quantities of salt water.

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: 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: This product, if disposed as shipped, is not a hazardous waste as specified on 40CFR 261. Controlled incineration or buried landfill disposal should be in accordance with all Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: No respiratory protection should be needed.

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.

EXPOSURE GUIDELINES: None established.

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 CLASSIFICATION: 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 Sealer**
PRODUCT CLASS: Epoxy Resin Hardener, Part B
PRODUCT TYPE: Cycloaliphatic Amine Solution
D.O.T. CATEGORY: UN 2289 Isophoronediamine 8 PG III
ADDRESS: **International Coatings**
2925 Lucy Lane
Franklin Park, IL 60131
TELEPHONE: 847-451-0279
EMERGENCY: 800-535-5053

SECTION II - HAZARDOUS INGREDIENTS

NFPA HAZARD RATINGS: Health 3, Flammability 1, Reactivity 1
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.

Isophorone Diamine Corrosive: CASRN 2855132 30% max.
Amine Adduct Corrosive: CASRN 68609085 26% max.
Benzyl Alcohol Irritant: CASRN 00100516 44.00 max.

SECTION III - PHYSICAL DATA

APPEARANCE: Clear Yellow Liquid
ODOR: Ammonia-like
PHYSICAL PROPERTIES
BOILING POINT 195 °C
MELTING POINT N/D
VAPOR DENSITY: N/D
WATER MISCIBILITY: Negligible - < 0.1%
PERCENT VOLATILES: 0 at 70 °F
SPECIFIC GRAVITY: 1.020
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: Foam, Dry Chemical, Carbon Dioxide (CO₂), Water
UNUSUAL FIRE OR EXPLOSION HAZARDS (Conditions to avoid): May produce hazardous fumes or hazardous decomposition products.
HAZARDOUS DECOMPOSITION PRODUCTS: NO_x, CO, Nitric Acid fumes
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
Dermal Toxicity	>2.0	G/KG EST LD50	Rabbit	Slight
DOT Corrosivity	POS	-	Rabbit	-
Eye Irritation	<72	0 - 110 Range	Rabbit	Severe
Oral Toxicity	>.5	G/KG EST LD50	Rat	Moderate
Skin Irritation	4.96	0-8 Range	Rabbit	Severe
LC(50) - N/D				

FIRST AID RECOMMENDATIONS

SKIN AND EYE CONTACT: **Danger!** Causes severe skin and eye irritation or burns. May cause permanent visual impairment. May cause skin sensitization. Avoid contact. 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: **Caution!** May cause irritation to upper respiratory tract. Avoid prolonged or repeated inhalation.

FIRST AID : Move to fresh air. If symptoms persist, consult a physician.

ORAL INGESTION: **Danger!** Do not take internally. May cause gastrointestinal irritation or ulceration. May cause burns to 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): None known

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. Dispose of in a licensed hazardous waste facility in accordance with applicable laws.

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: Full face shield and 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 material; can cause skin sensitization
3. Reseal partially used containers. Store in dry, cool place.
4. Observe conditions of good industrial hygiene and safe working practice
5. Wash with soap and water before eating, drinking, smoking and using the lavatory.

SECTION X - TRANSPORTATION

DOT PROPER SHIPPING NAME: Isophoronediamine

DOT HAZARD CLASSIFICATION OR DIVISION: 8

IDENTIFICATION NUMBER: UN 2289

PACKAGING GROUP: III

LABELS REQUIRED: Corrosive

SECTION XI – REGULATORY INFORMATION

WHMSIS CLASSIFICATION - Class E, Corrosive

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