

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION

July 2013

PRODUCT NAME: Iron Guard GS
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. Suite 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, pigmented liquid
SPECIFIC GRAVITY: 1.6 at 77°F
DENSITY: 13.5 lbs/gal
PERCENT VOLATILES: 0 at 70°F

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 200°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 concentrations of vapor cause irritation of eyes and respiratory tract. May cause burns to skin and eyes. 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: Flush with water for at least 15 minutes, holding eyelids 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.** 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

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 in 40CFR 261. Controlled incineration or buried landfill disposal should be in accordance with all federal, state and local environmental 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, e.g., tanks, in which case proper respiratory protection (see above) is 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

July 2013

PRODUCT NAME: Iron Guard GS
PRODUCT CLASS: Epoxy Resin Hardener, Part B
PRODUCT TYPE: Modified polyamine
D.O.T. CATEGORY: UN 2735 Amines, Liquids Corrosive NOS (M-Xylenediamine) 8 PG III
ADDRESS: International Coatings
Div. 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

Ingredient	Cas #	Maximum Content	Exposure Limits
M-Xylenediamine	1477-55-0	55.0%	None assigned
Aminoethyl Piperazine	140-31-8	10.0%	None assigned
Benzyl Alcohol	100-51-6	25.0%	None assigned

SECTION III - PHYSICAL DATA

PHYSICAL STATE: Low Viscosity, amber color
SPECIFIC GRAVITY: 1.69 at 77° F
DENSITY: 14 lbs/gal, 8.55
ODOR: Amine
VAPOR PRESSURE: Less than 1 mm Hg @ 68° F
PERCENT VOLATILES: 0 AT 70° F
VOC CONTENT: 0% - None

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 Level 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 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

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 Amines, Liquids Corrosive NOS (M-Xylenediamine)

DOT HAZARD CLASSIFICATION OR DIVISION: 8

IDENTIFICATION NUMBER: UN 2735

PACKAGING GROUP: III

LABELS REQUIRED: Corrosive

SECTION XI - REGULATORY INFORMATION

WHMSIS CLASSIFICATION -Class E, Corrosive

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.