

#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

##### 1.1 Product identifier

**Product Name:** Hi-Gloss Coat, Part B Product

**Codes(s):** SS 100.5 Sealer Part B **Synonyms:**

Amine/Epoxy Resin

**REACH Registration Number:** No data available

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**General Use:** Epoxy hardener

**Uses advised against:** None known

##### 1.3 Details of the supplier and of the safety data sheet

**Manufacturer/Distributor**

Endurmo

12110 Ellington Ct.

Cincinnati, Ohio 45249

1-331-214-1655

##### 1.4 Emergency telephone numbers: CHEMTREC +1-800-424-9300; +1-703-527-3887 Outside the USA

#### SECTION 2 - HAZARDS IDENTIFICATION

##### 2.1 Classification of substance or mixture

**Product definition:** Mixture

**Classification (Regulation (EC) No 1272/2008)**

Acute Toxicity, Oral - Category 4 [H302]

Acute Toxicity, Dermal - Category 4 [H312]

Skin Corrosion - Category 1B [H314]

Skin Sensitization - Category 2 [H317]

Acute Toxicity, Inhalation - Category 4 [H332]

Aquatic Chronic - Category 3 [H412]

##### 2.2 Label Elements

**Labeling (Regulation (EC) No 1272/2008)**

**Hazard Symbols**



**Signal Word:**

Danger

**Hazard Statement(s):**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

**Precautionary Statements:**

H412 - Harmful to aquatic life with long lasting effects

**[Prevention]**

P261 - Avoid breathing fumes and vapors.

P264 - Wash hands and other exposed skin areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing and eye protection.

P273 - Avoid release to the environment.

**[Response]**

P301 + P330 + P331 + P310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment: Refer to Section 4 of this SDS and seek medical attention.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

**[Storage]**

**[Disposal]** P501 - Dispose of contents in accordance with national/local regulations.

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1 Substances

Not applicable

### 3.2 Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
35 - 50	Phenylmethanol	100-51-6	202-859-9	603-057-00-5	Xn, R20/22
30 - 45	Isophorone Diamine	2855-13-2	220-666-8	612-067-00-9	Xi, R21/22; C, R34; R43; R52/53
18 - 30	Methylenedicyclohexylamine	1761-71-3	217-168-8	-----	-----
30 - 45	Epoxy Polymer	Proprietary	-----	612-067-00-9	-----
18 - 30	Polyamine	Proprietary	-----	-----	-----

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of first aid measures

**Inhalation:** If product vapor or fumes cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

**Eyes:** Immediately flush eyes with large amounts of water for 20 minutes, occasionally lifting upper and lower lids. Remove contact lenses, if present and easy to do, after first 5 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

**Skin:** Remove contaminated clothing. Wash affected area with soap and water. Discard contaminated clothing and shoes.

**Ingestion:** Rinse mouth with water. Remove dentures if any. Do not induce vomiting unless directed to do so by medical personnel. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration of material into the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential health symptoms and effects

**Eyes:** Causes burns to the eyes and surrounding tissues. Symptoms include redness, swelling, tearing, pain and possible permanent damage.

**Skin:** Causes burns to the skin. Symptoms may include itching, redness, swelling, discomfort and possible rash. May cause allergic skin reaction or skin sensitization in susceptible individuals. Harmful if absorbed through the skin.

**Inhalation:** If handled at elevated temperatures, high concentrations of vapor or fumes may cause irritation of the respiratory tract. In a confined area vapors/fumes in high concentration may cause headache, nausea, dizziness, coughing, sore throat and damage to the tissues of the mucous membranes and upper respiratory tract. May cause pulmonary edema with symptoms of breathing difficulty and tightness of the chest.

**Ingestion:** Harmful if swallowed. May cause burns or severe irritation to the gastrointestinal tract with nausea, vomiting and diarrhea. Material can get into the lungs during swallowing or vomiting, resulting in lung inflammation.

**Chronic:** Prolonged and repeated exposure to this material may have adverse chronic effects to the central nervous system and cause skin sensitization.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Advice to Doctor and Hospital Personnel

Application of corticosteroid has been effective in treating skin irritation.

## SECTION 5 - FIRE FIGHTING MEASURES

### 5.1 Extinguishable media

**Suitable methods of extinction:** Use water fog, water spray, carbon dioxide, dry chemical or foam

**Unsuitable methods of extinction:** Water spray may be ineffective. Water jets and high pressure streams may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### 5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Wear appropriate protective clothing and equipment designated in Section 8.

### 6.2 Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways.

### 6.3 Methods and materials for containment and cleaning up

Approach spill from upwind direction. Cover drains and contain spill. Cover with a large quantity of inert absorbent (e.g. dry sand, vermiculite). Shovel or sweep up product and place into an approved container for proper disposal. Observe possible material restrictions (refer to Sections 7.2 and 10.5).

### 6.4 Reference to other sections

For indications about waste treatment, see Section 13.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wear all appropriate protective equipment specified in Section 8. Observe label precautions. Ventilate the area. No smoking.

#### Advice on protection against fire and explosion

None known

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Protect containers against physical damage. Keep containers tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Remove and dispose of any spilled material. Do not reuse empty containers as they may retain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Avoid skin contact. Do not take internally. Keep out of reach of children.

### 7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

None established

### 8.2 Exposure controls

**Engineering Measures:** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to section 7.1.

**Individual protection measures:** Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

**Hygiene measures:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

**Eye/face protection:** Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

**Hand Protection:** Wear PVA gloves or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period. Loose fitting, thermal insulated or leather gloves are recommended.

**Other protective equipment:** Long sleeve shirts and trousers without cuffs; boots if the situation calls for them.

**Respiratory Protection:** Always use an approved respirator when vapor/aerosols are generated. Use material under a hood in the lab. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

NOTE: This material may contain substances classified as nuisance particulates which may be present at hazardous levels only during sanding, abrading or removal of dried films. If no specific dusts are listed in Section 8, the applicable limits for unknown nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**Environmental exposure controls:** Do not empty into drains.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear, colorless liquid
<b>Odor</b>	Paint
<b>Odor Threshold</b>	No data available
<b>Molecular Weight</b>	Not applicable
<b>Chemical Formula</b>	Not applicable
<b>pH</b>	No data available
<b>Freezing/Melting Point, Range</b>	No data available
<b>Initial Boiling Point</b>	202 - 207 °C (396 - 405 °F)
<b>Evaporation Rate</b>	<1 (Ether = 1)
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash Point</b>	>93 °C (>200 °F)
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Lower Explosive Limit (LEL)</b>	No data available
<b>Upper Explosive Limit (UEL)</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	>1 (Air = 1)
<b>Specific Gravity</b>	1.017
<b>Viscosity</b>	3.00 mPa.s @ 23 °C
<b>Solubility in Water</b>	No data available
<b>Partition Coefficient: n-octanol/water</b>	No data available
<b>Volatiles by Volume @ 70° F</b>	41%

### 9.2 Other data

No data available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

No hazardous reactivity reported under normal use. Hazardous polymerization will not occur.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None known

### 10.4 Conditions to avoid

Temperature extremes

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

Thermal decomposition products include carbon oxides, nitrogen oxides, hydrogen cyanide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

No toxicity tests have been carried out for this product.

#### Acute Oral Toxicity

Expected to have low to moderate acute oral toxicity

#### Acute inhalation toxicity

No data available

#### Acute dermal toxicity

No data available

#### Skin irritation

Causes burns to the skin

#### Eye irritation

Causes burns to the eyes

#### Sensitization

May cause sensitization

#### Genotoxicity in vitro

No data available

#### Mutagenicity

No data available

#### Specific organ toxicity - single exposure

No data available

#### Specific organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

### 11.2 Further information

The components in this product are not listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity and/or teratogenicity of this product, nor is there any available data that indicates it causes adverse developmental and/or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Toxicity

No ecotoxicity tests have been carried out for this product.

#### Data for Component: Isophorone Diamine

**Acute and prolonged toxicity to fish:**LC50 - *Leuciscus idus* (Golden orfe), 96 h: 110 mg/l

**Toxicity to aquatic invertebrates:** EC50 - *Daphnia* (Water flea), 24 h: 42 mg/l

**Toxicity to aquatic plants:** EC50 - *Scenedesmus subspicatus* (Algae), 72 h: 37 mg/l, inhibition

#### Data for Component: Methylenedicyclohexylamine

**Acute and prolonged toxicity to fish:**LC50 - *Leuciscus idus* (Golden orfe), 48 h: 38 mg/l

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulation potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Other adverse effects

### Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

The generation of waste should be avoided or minimized whenever possible. Although this product is classified as non-hazardous under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261 this material and its container should be disposed of in a safe way as empty containers may contain product residue. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself. Incinerate in an approved facility. Do not incinerate closed container. Dispose of in accordance with the Directive 2008/98/EC as well as other national, federal, state/provincial and local laws and regulations.

**Hazardous waste:** The classification of this product may meet the criteria for a hazardous waste.

## SECTION 14 - TRANSPORT INFORMATION

**Note:** Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

### U.S. DOT: Non-bulk Limited Quantities

5 liters (1.3 gal) and less may be classified as Limited Quantity. Larger quantities are regulated as UN3066, Paint Related Material, 8, PG III.

### U.S. DOT

**Proper Shipping Name:** Paint Related Material  
**Hazard Class:** 8  
**UN/NA:** 3066  
**Packing Group:** III  
**NAERG:** Guide #153  
**Packaging Authorization:** Non-Bulk: 49 CFR 173.173; Bulk: 173.242  
**Packaging Exceptions:** 49 CFR 173.154

### IMO/IMDG

**Proper Shipping Name:** Paint Related Material  
**Hazard Class:** 8  
**UN/NA:** 3066  
**Packing Group:** III  
**Marine Pollutant:** No  
**EMS Number:** F-A, S-B

### IAAO/IATA

**Proper Shipping Name:** Paint Related Material  
**Hazard Class:** 8  
**UN/NA:** 3066  
**Packing Group:** III  
**Quantity Limitations:** 49 CFR 173.27 and 175.75 - Cargo Aircraft Only: 30 L; Passenger Aircraft: 1 L

### RID/ADR

**Proper Shipping Name:** Paint Related Material  
**Hazard Class:** 8  
**UN/NA:** 3066  
**Packing Group:** III

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

#### U. S. Federal Regulations

**OSHA Hazard Communication Standard:** This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

**TSCA Status:** All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

#### Superfund Amendments and Reauthorization Act (SARA)

**SARA Section 311/312 Hazard Categories:** Acute Health Hazard, Chronic Health Hazard

**SARA 313 Information:** None of the components in this product subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

#### SARA 302/304 Extremely Hazardous Substance

No components of the product are subject to the reporting requirements of these sections of Title III of SARA.

#### SARA 302/304 Emergency Planning & Notification

No components of the product are subject to the reporting requirements of these sections of Title III of SARA.

**Comprehensive Response Compensation and Liability Act (CERCLA):** This product contains no CERCLA reportable substances.

#### Clean Air Act (CAA)

This product does not contain any chemicals listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

#### Clean Water Act (CWA)

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

## U.S. State Regulations

### California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

### Other U.S. State Inventories:

Materials in this product are not listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

## Canada

### WHMIS Hazard Symbol and Classification:



E - Corrosive to skin



D2B - Skin sensitizer

**Canadian Controlled Products Regulations (CPR):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

**Canadian Ingredient Disclosure List (IDL):** Phenylmethanol (CAS #100-51-6 and Isophorone Diamine (CAS #2855-13-2) are listed on the IDL.

**Canadian National Pollutant Release Inventory (NPRI):** None of the chemicals in this material are listed on the NPRI.

## European Economic Community

### Labeling (67/548/EEC to 1999/45/EC)



C - Corrosive



Xn - Harmful

**Risk Phrases:** R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.  
R34 - Causes burns.  
R43 - May cause sensitization by skin contact.  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:** S1/2 - Keep locked up and out of reach of children.  
S24 - Avoid contact with skin.  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label or this SDS whenever possible).  
S61 - Avoid release to the environment. Refer to special instructions or this SDS.

**WGK, Germany (Water danger/protection):** 2

### Chemical inventory Lists

Country	Inventory Name	Inventory Listing*
Canada:	Domestic Substance List (DSL).	
Canada:	Non-Domestic Substance List (NDSL).	
Europe:	Inventory of New and Existing Chemicals (EINECS)	
United States:	Toxic Substance Control Act (TSCA)	
Australia:	Australian Inventory of Chemical Substances (AICS)	
New Zealand:	New Zealand Inventory of Chemicals (NZIoC)	
China:	Inventory of Existing Chemical Substances in China (IECSC)	
Japan:	Inventory of Existing and New Chemical Substances (ENCS)	
Korea:	Existing Chemicals List (ECL)	
Philippines:	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	

\*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.

\*\*"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16 - OTHER INFORMATION

### Hazardous Material Information System (HMIS)

Health	*
Flammability	1
Physical Hazard	1
Personal Protection	€

### HMIS & NFPA Hazard Rating Legend

\* = Chronic Health Hazard      2 = MODERATE  
0 = INSIGNIFICANT                3 = HIGH  
1 = SLIGHT                            4 = EXTREME



Safety Glasses



Gloves



Protective Apron

### National Fire Protection Association (NFPA)

#### Flammability



Special

### Full Text of Risk (R) – Phrases Referenced in Section 3 (not covered in Section 15)

**R20/22** Harmful by inhalation and if swallowed.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Preparation Date: 09 August 2014