

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product Name:** Sealer, Part A (Matte) Product

**Codes(s):** SS-500 Part A (Matte) **Synonyms:**

Polyurethane dispersion

**REACH Registration Number:** No data available

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

**General Use:** Floor coating

**Uses advised against:** No uses advised against

#### 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)**

Eye Irritation - Category 2 [H319]

Skin Irritation - Category 2 [315]

Skin Sensitization - Category 2 [317]

#### 2.2 Label Elements

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

**Hazard Symbols**



**Signal Word:**

Warning

**Hazard Statement(s):**

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

**Precautionary Statements:**

**[Prevention]**

P261 - Avoid breathing fumes and vapors.

P264 - Wash hands thoroughly after handling.

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

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

**[Response]**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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.

P337 + P313 - If eye irritation persists: Get medical attention.

**[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 |
|-------------|----------------------|------------|-----------|--------------|-------------------|
| 1 - 5       | Butoxypropanol       | 5131-66-8  | 225-878-4 | 603-052-00-8 | Xi, R36/38        |
| 1 - 5       | Ethylene Glycol      | 107-21-1   | 203-473-3 | 603-027-00-1 | Xi, R22           |
| 3 - 9       | Alkyl Glycidyl Ether | 68609-97-2 | 271-846-8 | 603-103-00-4 | Xi, R38; R42      |

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 fumes or vapor 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 or occur later, seek immediate medical attention.

**Eyes:** Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses, if present and easy to do, after the first 1 - 2 minutes and continue rinsing, occasionally lifting the upper and lower eyelids. Obtain immediate medical attention, preferably from an ophthalmologist.

**Skin:** Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Discard items that cannot be decontaminated including leather articles such as shoes, belts and watchbands.

**Ingestion:** Rinse mouth with water. Remove dentures if present. Do not induce vomiting unless directed to do so by medical personnel. 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 eye irritation with redness, swelling, tearing and itching.

**Skin:** Prolonged and repeated contact may cause skin irritation with localized redness and itching. Product can cause allergic skin reactions in susceptible individuals.

**Inhalation:** Vapor from material, especially when heated, may cause irritation of the respiratory system.

**Ingestion:** May cause digestive upset including gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic:** Prolonged and repeated skin contact may cause skin sensitization. Ethylene Glycol has been classified by ACGIH as an A4 carcinogen.

## SECTION 5 - FIRE FIGHTING MEASURES

### 5.1 Extinguishable media

**Suitable methods of extinction:** Water fog or fine water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**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 auto ignition or explosion when exposed to extreme heat. Firefighters should control runoff water to prevent environmental contamination.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area. Avoid contact with skin.

### 6.2 Environmental precautions

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

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

Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible absorbents such as saw dust. Shovel or sweep up product and place into approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Clean contaminated area with soap and water.

### 6.4 Reference to other sections

Refer to Section 13 for waste disposal considerations. Refer to Section 12 for ecological information.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Use product in a manner which minimizes splashing. Keep containers closed when not in use.

#### 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

| CAS Number | Ingredient      | OSHA TWA | ACGIH                     | NIOSH |
|------------|-----------------|----------|---------------------------|-------|
| 107-21-1   | Ethylene Glycol | -----    | 50 ppm; 127 mg/m3 Ceiling | ----- |

### 8.2 Exposure controls

**Precautions to be taken in use:** NO PERSON SHOULD USE THIS PRODUCT OR BE IN THE AREA WHERE IT IS BEING USED IF THEY HAVE CHRONIC LUNG OR BREATHING PROBLEMS, OR IF THEY HAD A REACTION TO ISOCYANATES.

**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 Neoprene rubber or nitrile rubber gloves 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.

**Other protective equipment:** Protective clothing. Protective boots, if the situation requires.

**Respiratory protection:** Always use an approved respirator when vapor/aerosols are generated. 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).

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 3 may be effective. Wear respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.

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/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (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 to pale yellow 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>                                     | 7.5                                    |
| <b>Freezing/Melting Point, Range</b>          | No data available                      |
| <b>Initial Boiling Point</b>                  | 100 °C (212 °F)                        |
| <b>Evaporation Rate</b>                       | <1 (Ether = 1)                         |
| <b>Flammability (solid, gas)</b>              | Not applicable                         |
| <b>Flash Point</b>                            | >100 °C (>212 °F) PMCC                 |
| <b>Autoignition Temperature</b>               | No data available                      |
| <b>Decomposition Temperature</b>              | No data available                      |
| <b>Lower Explosive Limit (LEL)</b>            | 1.1%                                   |
| <b>Upper Explosive Limit (UEL)</b>            | 15.3%                                  |
| <b>Vapor Pressure</b>                         | No data available                      |
| <b>Vapor Density</b>                          | >1 (Air = 1)                           |
| <b>Specific Gravity</b>                       | 1.05                                   |
| <b>Viscosity</b>                              | No data available                      |
| <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>            | 67%                                    |

### 9.2 Other data

No data available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

No special reactivity has been 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

None known

## 10.5 Incompatible materials

None known

## 10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon.

# SECTION 11 - TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute Oral Toxicity

No data available

### Acute inhalation toxicity

No data available

### Acute dermal toxicity

No data available

### Skin irritation

Causes skin irritation.

### Eye irritation

Causes serious eye irritation.

### Sensitization

May cause allergic skin reaction in susceptible individuals.

### Genotoxicity

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

Ethylene Glycol (CAS #107-21-1) is listed as an ACGIH A4 Carcinogen - Not classifiable as a human carcinogen. Not listed as a carcinogen by IARC, NTP or OSHA. Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

The remaining 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

The eco-toxicity of this product has not been tested.

## 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

**Methods of disposal:** The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of

environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**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.

Not regulated for transport

## 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 considered a hazardous material as defined by the OSHA Hazard Communication Standard (28 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:** Ethylene Glycol (CAS #107-21-1) is subject to the reporting requirements established by 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):** The following components of the product are reportable:

Ethylene Glycol (CAS #107-21-1); RQ = 2,268 kg (5,000 lbs)

#### **Clean Air Act (CAA)**

Ethylene Glycol (CAS #107-21-1) is listed as a Hazardous Air Pollutant (HAP) 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)**

Ethylene Glycol (CAS #107-21-1) is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as a Priority Pollutant 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 a chemical known to the State of California to cause birth defects or reproductive harm.

##### **Other U.S. State Inventories:**

Ethylene Glycol (CAS #107-21-1) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, IL, ME, MA, MN, NJ, NY, PA, WA, WI.

#### Canada

##### **WHMIS Hazard Symbol and Classification:**

D2B - Eye irritation; skin sensitization

**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 National Pollutant Release Inventory (NPRI):** Ethylene Glycol (CAS #107-21-1) and Butoxypropanol (CAS #5131-66-8) are listed.

**Canadian Ingredient Disclosure List (IDL):** Ethylene Glycol (CAS #107-21-1) is listed on the IDL.

#### European Economic Community

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



Xi - Irritant

**Risk Phrases:** R36/38 - Irritating to eyes and skin.

R43 - May cause sensitization by contact.

**Safety Phrases:** S2 - Keep out of the reach of children.

S24 - Avoid contact with skin.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin wash with plenty of soap and water.

S36/37/38 - Wear suitable protective clothing, gloves and eye/face protection.

**WGK, Germany (Water danger/protection):**No data available

## Global 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     | 0 |
| Personal Protection | ☑ |

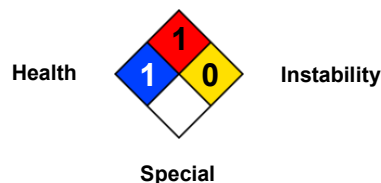
#### HMIS and NFPA Hazard Rating Legend

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



### National Fire Protection Association (NFPA)

#### Flammability



### Full Text of Risk (R) – Phrases Referenced in Section 3.

R50 - Very toxic to aquatic organisms.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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