

# SAFETY DATA SHEET



Issue Date: July 10, 2017

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Version: 2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duraguard 100, Part A

### Other Means of Identification

SDS #: F5031A

Recommended Use: Epoxy Coating

Restrictions on Use: No Data

### Supplier of the Safety Data Sheet including Address:

ChemMasters Inc.  
300 Edwards Street  
Madison, OH 44057

### Telephone Numbers

Company Phone Number

Phone: 800-486-7866, 440-428-2105

Fax: 440-428-7091

Emergency Telephone: ChemTrec 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards:

Harmful if swallowed, harmful if inhaled, causes skin irritation, may cause allergic skin reaction, causes serious eye irritation, may cause respiratory irritation, suspected of causing genetic defects, toxic to aquatic life, toxic to aquatic life with long lasting effects.

#### GHS Classification:

Acute toxicity, Oral – Category 4

Acute toxicity, Inhalation – Category 4

Skin Corrosion/Irritation: Category 2

Eye damage/eye irritation – Category 2A

Skin sensitization – Category 1

Germ Cell Mutagenicity – Category 2

Specific Target Organ toxicity – single exposure: Category 3

Hazardous to the Aquatic Environment – Short Term (Acute) Hazards: Category 2

Hazardous to the Aquatic Environment – Long Term (Chronic) Hazards: Category 2

### Label Elements, including precautionary statements

Pictograms:



**Signal Word: WARNING**

**Hazard Statements:**

- H302 Harmful if swallowed**
- H315 Causes skin irritation.**
- H317 May cause an allergic skin reaction.**
- H319 Causes serious eye irritation.**
- H332 Harmful if inhaled**
- H335 May cause respiratory irritation.**
- H341 Suspected of causing genetic defects**
- H401 Toxic to aquatic life**
- H411 Toxic to aquatic life with long lasting effects**

**Precautionary Statement(s)**

**Prevention:**

- P201 Obtain special instructions before use.**
- P202 Do not handle until all safety precautions have been read and understood.**
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**
- P264 Wash hands and skin thoroughly after handling.**
- P270 Do not eat, drink or smoke when using this product.**
- P217 Use only outdoors or in a well-ventilated area.**
- P272 Contaminated work clothing should not be allowed out of the workplace.**
- P273 Avoid release to the environment.**
- P280 Wear protective gloves/protective clothing/eye protection/face protection.**

**Response:**

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**
- P337+P313 If eye irritation persists: Get medical advice or attention.**
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.**
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.**
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.**
- P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.**
- P362+P364 Take off contaminated clothing and wash it before reuse.**
- P308+P313 IF exposed or concerned: Get medical advice/attention**
- P391 Collect Spillage**

**Storage:**

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.**
- P405 Store locked up**

**Disposal:**

- P501 Dispose of contents/container in accordance with local/regional/national regulations.**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Component**

Bisphenol A, epichlorohydrin epoxy resin	CAS#: 25068-38-6	60-70%
o-Cresyl glycidyl ether	CAS#: 2210-79-9	10-30%
2-ethyl hexyl Glycidyl Ether	CAS#: 2461-15-6	1-10%
Polymer-Non Hazardous	CAS#: Proprietary	<1%
Xylene	CAS#: 1330-20-7	<1%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### **First Aid Measures**

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If not breathing, give artificial respiration. Consult a physician.

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion:** IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

#### **Specific Hazards Arising from the Chemical**

In case of fire, toxic fumes might be formed.

#### **Hazardous Combustion Products**

Carbon dioxide and Carbon monoxide

#### **Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus and full protective gear for firefighting.

#### **Further Information**

See Section 7 for safe handling and storage.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

In case of spill wear appropriate personal protective equipment during any cleanup and response activities. Avoid skin contact and inhalation.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **Methods and Material for Containment and Cleaning Up**

Dike and contain spill with inert absorbent materials. Soak up with inert material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### **Conditions for Safe Storage, Including any Incompatibilities**

**General information:** Store in cool place. Keep container tightly closed in a dry and well ventilated place. Keep away from heat (<95 degrees F/<35 degrees C). Do not store below 50°F. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Safe Storage:** No Additional Data

**Incompatibilities:** None known

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure Guidelines**

#### **Component Exposure Limits:**

This material contains no substances with occupational exposure limit values.

### **Appropriate Engineering Controls**

Local Ventilation: Recommended

General Ventilation: Recommended

### **Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:** Use proper protection – Safety Glasses as a minimum

**Skin and Body Protection:** Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

**Respiratory Protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on Basic Physical and Chemical Properties**

#### **Physical State**

**Appearance:** Liquid

**Color:** Clear – Light Yellow

**Odor:** Mild Epoxy

**Odor threshold:** No Data

#### **Property**

Vapor Pressure

Vapor Density

Relative Density

pH:

Melting/Freezing Point

Solubility

#### **Value**

Not Available

Not Available

Not Available

Not Relevant

Not Relevant

Not Available

#### **Remarks – Method**

Evaporation Rate	Not Available	
Flash Point	≥205 Degrees F (>96 Degrees C)	Closed Cup
Flammability Limits	Not Relevant	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	Not Available	
Initial Boiling Point/Boiling Range	Not Available	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	1.12	Density: 9.36 lb./gal. +/- 0.1

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** No Data Available.

**Conditions to Avoid:**

Upon prolonged storage the material may crystallize which is reversible. Do not store below 50°F. Store away from heat.

**Incompatible Materials:** Acids, Amines, Bases and Oxidizing Agents.

**Hazardous Decomposition Products:** Carbon dioxides, Carbon monoxide, phenolics

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Inhalation, Skin Contact, Eye Contact, Ingestion

**Symptoms of Exposure:**

**Harmful if swallowed, Harmful if inhaled, Causes skin irritation, May cause allergic skin reaction, Causes serious eye irritation.**

**Numerical measures of toxicity:**

Ingredient Epoxy resin, CAS# 25068-38-6

Acute Toxicity – Oral LD50 1,000 – 5000 mg/Kg Rat  
LD50 500 – 2000 mg/Kg Mouse

Acute Toxicity – Dermal LD50 > 20,000 – 20,000 mg/Kg Rat  
LD50 > 20,000 mg/Kg Rabbit  
LD50 1,270 mg/Kg Mouse.

Acute Toxicity – Inhalation No Data

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure**

**Carcinogenicity: IARC, ACGIH, NTP, OSHA**

No components of this product present at levels greater than or equal to 0.1% is identifies as a carcinogen or potential carcinogen.

**Specific target organ toxicity:** Single exposure – Category 3, Respiratory System, May cause respiratory irritation.

**Mutagenicity:** Ames tests of o-Cresyl glycidyl ether showed that it was a direct-acting mutagen in strains TA1535 and TA100 but not in TA98. In a host-mediated micronucleus test in mice, this material was found not to be genotoxic.

## 12. ECOLOGICAL INFORMATION

**Eco toxicity:** Ingredient, Epoxy Resin

Fish: LC50 1.41 mg/l 96 hr. Oryzias latipes (Japanese Rice Fish);

Flathead Minnow LC50 3.1 mg/l 96 hr.

Crustacea: EC50 1.7 mg/l 48 hr.

Aquatic Invertebrates Water Flea (Daphnia magna) EC50 3.6 mg/l 24 hr.

Aquatic Plants: No Data

**Persistence and Degradability:** No Data Available

**Bioaccumulation:** Concentration: log Kow 2.281 (estimate)

BCF 0.56 – 0.67

Bio Resolvability: 0(%) 28 day; Non-degradable

**Mobility:** No Data Available

**Other Adverse Effects:** No Data Available

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes:** This product is not expected to be a hazardous waste under RCRA. It is however toxic to aquatic life. Dispose of in conformance with all federal, state and local regulations.

**Contaminated Packaging:** Dispose of as unused material.

## 14. TRANSPORT INFORMATION

**DOT:** Non-Bulk Not Regulated,

Bulk: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin, Cresyl glycidyl ether), 9, III

**IMDG:** UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin, Cresyl glycidyl ether), 9, III

(Special Precaution: F-A, S-F)

**Marine Pollutant:** Yes

**IATA:** UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin, Cresyl glycidyl ether), 9, III

Cargo Packing Instruction: 964

Passenger Packing Instruction: 964

## 15. REGULATORY INFORMATION

**International Inventories**

**TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**US Federal Regulations**

**SARA 302:** None Known

**SARA 311/312 Hazard Categories:** Acute Health Hazard, Delayed (Chronic) Health Hazard

**SARA 313 Hazard Categories:**

Xylene, 1330-20-7: 0.2%

**CWA (Clean Water Act):** None Known

### **Supplemental State Compliance Information**

California:

Warning: This product may contain trace amounts of a chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. **Epichlorohydrin CAS# 106-89-8**

New Jersey Right To Know:

CAS Number	Component Name
2461-15-6	2-ethyl hexyl Glycidyl Ether
100-51-6	Benzyl Alcohol
1330-20-7	Xylene

Pennsylvania Right To Know:

CAS Number	Component Name
2461-15-6	2-ethyl hexyl Glycidyl Ether
100-51-6	Benzyl Alcohol
1330-20-7	Xylene

**U.S. EPA Label Information:** No Data

## **16. OTHER INFORMATION**

### **HMIS Classification:**

<b>Health hazard:</b>	<b>2</b>
<b>Flammability:</b>	<b>1</b>
<b>Physical Hazards:</b>	<b>0</b>

### **NFPA Rating:**

<b>Health hazard:</b>	<b>2</b>
<b>Fire:</b>	<b>1</b>
<b>Reactivity Hazard:</b>	<b>0</b>

**Issuance Date: July 10, 2017**

**Revision Date: June 25, 2018**

**Revision Note: Reviewed and Updated**

**Date of Previous Version: April 20, 2015**

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**