SAFETY DATA SHEET

Issue Date: July 10, 2017 **Revision Date: July 10, 2017** **Version: 2017**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duraguard 100, Part A, Various Colors

Other Means of Identification
SDS #: F5031A Colors

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 (United States & Canada), International Call: 1-703-527-3887

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%
Various Pigments Including:		10-20%
Titanium Dioxide	CAS#: 13463-67-7	
Iron Oxide Blends:	CAS#: Various (Non-Hazardous)	
Carbon Black	CAS#: 1333-86-4	

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^{o}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	Value	Remarks – Method
Vapor Pressure	Not Available	
Vapor Density	Not Available	
Relative Density	Not Available	
pH:	Not Relevant	
Melting/Freezing Point	Not Relevant	
Solubility	Not Available	
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^{o}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 Toxicty – 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:

Health hazard:	**2**
Flammability:	**1**
Physical Hazards:	**0**

NFPA Rating:

Health hazard:	**2**
Fire:	**1**
Reactivity Hazard:	**0**

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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