

SAFETY DATA SHEET



Issue Date: March 28, 2017

Revision Date: March 28, 2017

Version: 2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DuraShield SRT Catalyst

Other Means of Identification

SDS #: F1225 Catalyst

Recommended Use: Catalyst for DuraShield SRT Resin

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:

Causes serious eye damage, causes skin irritation, harmful if swallowed, harmful to aquatic life.

GHS Classification:

Eye damage/eye irritation – Category 1

Skin Corrosion/Irritation – Category 2

Harmful if swallowed – Category 4

Hazardous to the Aquatic Environment – Short Term (Acute) Hazard – Category 3

Label Elements, including precautionary statements

Pictograms:



Signal Word: DANGER

Hazard Statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H402 Harmful to Aquatic Life

Precautionary Statement(s)

Prevention:

- P264 Wash hands and skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment
- P280 Wear protective gloves, 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.
- P310 Immediately call a POISON CONTROL CENTER/doctor.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice or attention.
- P362+P364 Take off contaminated clothing and wash before reuse.
- P301+P312 IF SWALLOWED: Call a POISON CONTROL CENTER/doctor if you feel unwell.
- P330 Rinse mouth.

Storage: None

Disposal:

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

Hazards not otherwise classified: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

3-glycidyl-oxypropyl-trimethoxy-silane	CAS#: 2530-83-8	99-100%
Methanol	CAS#: 67-56-1	0.1-1.0%

Note: Additional Methanol may be formed by reaction with moisture.

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.

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. If conscious, 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 occurs: Get medical advice or attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Product is not combustible. Use water spray (fog), alcohol-resistant foam, dry chemical, or carbon dioxide for surrounding fire.

Specific Hazards Arising from the Chemical: None Known

Hazardous Combustion Products: Carbon oxides

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: Keep at a temperature not exceeding 38 Degrees C (100 Degrees F). Do not allow material to freeze. Keep container tightly closed in a dry and well ventilated place. 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 Limit

Ingredients CAS # Exposure Limits

3-Glycidyl-oxypropyl-trimethoxy-silane CAS#: 2530-83-8; 5 ppm OSHA (TWA), 10 ppm OSHA (STEL)

Methanol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV - skin: TWA 200 ppm, STEL 250 ppm.

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. Note: Trace amounts of monomers may be released during use of this material. Use adequate ventilation to keep vapour concentrations below applicable standard.

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: Colorless to Pale Yellow

Odor: Mild, Slight Ester like

Odor threshold: No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	<0.75 20°C mm Hg	
Vapor Density	Not Available	
Relative Density	Not Available	
pH:	Not Relevant	
Melting/Freezing Point	Freezing Point -94 Degrees F	
Solubility	Dispersible in water	
Evaporation Rate	<1	
Flash Point	230°F (110°C)	
Flammability Limits	Not Relevant	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	Not Available	
Initial Boiling Point/Boiling Range	Boiling Point 554 Degrees F (290 Degrees C)	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	1.07 +/- 0.01	Density: 8.91 lb./gal. +/- 0.1

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Possibility of Hazardous Reactions: No Data Available.

Conditions to Avoid: None known

Incompatible Materials: None known

Hazardous Decomposition Products: Carbon oxides & Oxides of Silicon

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact
Ingestion is not an anticipated route of exposure for this material in industrial use.

Symptoms of Exposure:

Ingestion (swallowing): Harmful if swallowed.

This product hydrolyzes in the stomach to form methanol. Methanol may cause nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, blindness, drowsiness, coma, and death. Symptoms may be delayed up to 48 hours.

Contact causes skin irritation. Symptoms include localized redness.

Contact causes serious eye damage. Symptoms include pain, excess blinking, tear production, redness and swelling of the conjunctivae.

Numerical measures of toxicity:

Oral LD 50, Rat: 8,030 mg/kg

Dermal LD 50, Rabbit: 4,248 mg/kg

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 identified as a carcinogen or potential carcinogen.

Not Sensitizing

12. ECOLOGICAL INFORMATION

Eco toxicity:

Toxicity to Fish:

LC 50 – Cyprinus carpio (Carp) – 55 mg/l – 96 hrs.

Toxicity to Aquatic Vertebrates:

EC 50 – Daphnia magna (Water Flea) – 473 mg/l – 48 hrs.

Toxicity to Algae:

EC 50 – Desmodesmus subspicatus (green algae) – 255 mg/l – 72 hrs.

Persistence and Degradability: No Data Available

Bioaccumulation: Partition coefficient: log Pow: -2.6

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. Dispose of in conformance with all federal, state and local regulations.

Contaminated Packaging: Dispose of as unused material.

14. TRANSPORT INFORMATION

D.O.T.: Not Regulated

I.M.D.G.: Not Regulated

Marine Pollutant: No

I.A.T.A.: Not Regulated

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

SARA 313 Hazard Components: None Known

CWA (Clean Water Act): None Known

Supplemental State Compliance Information

California: This product contains the following 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. **Methanol**

New Jersey Right To Know:

Component Name

3-glycidyl-oxypropyl-trimethoxy-silane CAS#: 2530-83-8

Methanol CAS#: 67-56-1

Pennsylvania Right To Know:

Component Name

3-glycidyl-oxypropyl-trimethoxy-silane CAS#: 2530-83-8

Methanol CAS#: 67-56-1

Massachusetts Right To Know:

Component Name

3-glycidyl-oxypropyl-trimethoxy-silane CAS#: 2530-83-8

Methanol CAS#: 67-56-1

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

Issuance Date: March 28, 2017

Revision Date: March 28, 2017

Revision Note: Reviewed and Updated

Date of Previous Version: March 26, 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**