

# Superior Industries, Inc.

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

Product Name: DynaGlaze Base Coat Part R  
Product Use: 09/Nov/2014  
Print date: 09/Nov/2014  
Revision Date: 09/Nov/2014

#### Company Identification

Superior Industries, Inc.  
6180 Airways Blvd.  
Chattanooga, TN 37421  
Manufacturer's Phone: 1-423-899-0467

#### 24-Hour Medical Emergency Phone

1-800-476-2072; International: 423-899-0467

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
MODIFIED EPOXY RESIN	55 - 60	MODIFIED EPOXY RESIN
TITANIUM DIOXIDE 13463-67-7	15 - 20	Titanium dioxide
ALKYL GLYCIDYL ETHER 68609-97-2	5 - 10	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
NONYLPHENOL	5 - 10	Nonylphenol
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
PROPRIETARY INERT	1 - 5	Silica gel, pptd., cryst.-free

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

#### Inhalation Effects:

May cause respiratory tract sensitization. May cause respiratory tract irritation

**Eye Contact:**

May cause eye irritation

**Skin Contact:**

Contains a component which is a known or suspected skin sensitizer. May cause skin irritation.

**Acute Ingestion:**

May be harmful if swallowed.

**Other Effects:**

None known

**This product contains ingredients that may contribute to the following potential chronic health effects:**

Possible sensitization. Possible cancer hazard. Contains ingredients which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

## 4. FIRST AID MEASURES

**Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and laundry before reuse. Remove contaminated shoes and discard.

**Ingestion:**

If swallowed, get medical attention immediately. If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	238° F ( 114° C) TCC/PM
Lower explosive limit:	Not available. %
Upper explosive limit:	Not available. %
Autoignition temperature:	Not available. ° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Avoid all personal contact.

**7. HANDLING AND STORAGE****Precautions to be taken in handling and storage:**

Keep container closed when not in use.

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

**Skin protection:**

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

**Respiratory protection:**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

**Ventilation**

Required when spraying or applying in confined area.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	15 mg/m <sup>3</sup> Total dust.		
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		

**ACGIH Threshold Limit Value (TLV's)**

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	10 mg/m <sup>3</sup>			
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			

If this section is blank, no information is available.

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	1 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	Not determined.
Boiling point:	560° F ( 293° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	11.39
Specific Gravity:	1.37
Evaporation rate (butyl acetate = 1.0):	Not determined.

## 10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known.
Incompatibility:	None known.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes.

**Sensitivity to static discharge:** Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

### Mutagens:

### Teratogens:

### Carcinogens:

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	15 - 20			2B Possible Carcinogen

If this section is blank, no information is available.

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: Not regulated

## 14. TRANSPORTATION INFORMATION

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### International Air Transport Association:

Proper Shipping Name: Not regulated

### International Maritime Organization:

Proper Shipping Name: Not regulated

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

#### SARA 311/312 Hazard Class:

Acute: Yes  
Chronic: Yes  
Flammability: No  
Reactivity: No  
Sudden Pressure: No

### U.S. STATE REGULATIONS:

#### Pennsylvania Right To Know:

PROPRIETARY RESIN	Trade Secret
PROPRIETARY ADDITIVE	Trade Secret
ALKYL GLYCIDYL ETHER	68609-97-2
PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7

### Rule 66 status of product

Not photochemically reactive.

### INTERNATIONAL REGULATIONS - Chemical Inventories

#### TSCA Inventory:

This product does not comply with TSCA Inventory Requirements.

#### Canada Domestic Substances List:

Not all components in this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health: 3\*  
Flammability : 1

## 16. OTHER INFORMATION

Reactivity: 0  
PPE: C

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

# Superior Industries, Inc.

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

Product Name: Dyna Glaze Base Coat PART H  
Product Use: Wall & Ceiling Coating  
Print date: 08/Aug/20014  
Revision Date: 08/Aug/20014

#### Company Identification

Superior Industries, Inc.  
P.O. Box 8  
Chattanooga, TN 37401  
Manufacturer's Phone: 1-423-899-0467

#### 24-Hour Medical Emergency Phone

Toll Free- In US: 1-800-476-2072; International: 423-899-0467

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
BENZYL ALCOHOL 100-51-6	15 - 35	Benzyl alcohol
PROPRIETARY AMINE BLEND	40 - 70	PROPRIETARY BLEND OF ALIPHATIC AND CYCLOALIPHATIC AMINES
EPOXY POLYAMINE ADDUCT	5 - 10	EPOXY POLYAMINE ADDUCT

If this section is blank there are no hazardous components per OSHA guidelines.

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

**Inhalation Effects:**

May cause corrosive burns to respiratory passages. May cause respiratory tract sensitization

**Eye Contact:**

Causes Blindness Corrosive to eye tissue and may cause severe damage and blindness. Headaches

**Skin Contact:**

May be fatal if absorbed through the skin. May cause burns

**Acute Ingestion:**

May be fatal if swallowed.

**Other Effects:**

Contains ingredients which are corrosive.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. This product contains ingredients which may produce an allergic respiratory response. Treat as a respiratory sensitizer. Overexposure may cause allergic respiratory reaction. Effects may be permanent. May cause eye damage and pain. Prolonged or repeated exposure may cause conjunctivitis. Contains a component which is a known or suspected skin sensitizer. May cause redness and blistering of skin. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

## 4. FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. Contact a physician immediately. Move person to fresh air. Do not do mouth-to-mouth resuscitation. If breathing is difficult, give oxygen.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing. Flush with plenty of low pressure water for 15 minutes, occasionally lifting eye lids. If irritation persists, consult a physician.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and launder before reuse. Remove contaminated shoes and discard. Destroy contaminated leather apparel. Do not apply greases or ointments. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care.

**Ingestion:**

If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. Get immediate medical attention. If victim is conscious and alert, give 2-4 cupfuls of milk or water. If swallowed, DO NOT induce vomiting. If swallowed, get medical attention immediately. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	228° F ( 109° C) TCC/PM
Lower explosive limit:	Not available. %
Upper explosive limit:	Not available. %



## 5. FIRE FIGHTING MEASURES

Autoignition temperature:

Not available. ° F ( ° C)

Sensitivity to impact:

No.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

Hazardous combustion products:

See Section 10.

### Unusual fire and explosion hazards:

None known.

### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

### Fire fighting procedures:

Use water spray to cool nearby containers and structures exposed to fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Avoid all personal contact.

## 7. HANDLING AND STORAGE

### Precautions to be taken in handling and storage:

Keep container closed when not in use.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Required when spraying or applying in confined area.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

#### ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPRIETARY ADDITIVE	5 - 10			0.1 mg/m <sup>3</sup>	Can be absorbed through the skin.

If this section is blank, no information is available.

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	10 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	5.1
Boiling point:	400° F ( 204° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	8.5
Specific Gravity:	1.02
Evaporation rate (butyl acetate = 1.0):	Not determined.

## 10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizers. Acids or alkalies.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Phenolics. Ammonia compounds. Nitrogen compounds. Aldehydes.

**Sensitivity to static discharge:** Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**

**Teratogens:**

**Carcinogens:**

If this section is blank, no information is available.

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name:	PAINT
Hazard Class:	8
UN ID Number:	UN3066
Packing Group:	II

## 14. TRANSPORTATION INFORMATION

### 49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

#### International Air Transport Association:

Proper Shipping Name: PAINT  
Hazard Class: 8  
UN ID Number: UN3066  
Packing Group: II

#### International Maritime Organization:

Proper Shipping Name: PAINT  
Hazard Class: 8  
Non-Bulk UN ID Number: UN3066  
Packing Group: II

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

#### SARA 311/312 Hazard Class:

Acute: Yes  
Chronic: Yes  
Flammability: No  
Reactivity: No  
Sudden Pressure: No

### U.S. STATE REGULATIONS:

#### Pennsylvania Right To Know:

BENZYL ALCOHOL	100-51-6
PROPRIETARY ADDITIVE	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY ADDITIVE	Trade Secret
PROPRIETARY ADDITIVE	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY ADDITIVE	Trade Secret

#### Rule 66 status of product

Not photochemically reactive.

### INTERNATIONAL REGULATIONS - Chemical Inventories

#### TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

#### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health: 3\*  
Flammability: 1  
Reactivity: 1  
PPE: D

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The information contained in this Material Safety Data Sheet applies only to the actual Superior Corporation product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Superior product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Superior believes to be reliable as of the date hereof. Prior to each use of any Superior product, the user must always read and follow the warnings and instructions on the product's current Technical Data Sheet, product label and Material Safety Data Sheet for each Superior product, which are available at web site and/or telephone number listed in Section 1 of this MSDS.

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All sales of Superior products are subject to its current terms and conditions of sale available at [www.superior-industries.com](http://www.superior-industries.com) or 423-899-0467.

# Material Safety Data Sheet

DynaGlaze Top Coat - Part R

## 1. Product and company identification

**Product name** : DynaGlaze Top Coat - Part R  
**Supplier** : Superior Industries, Inc.  
P.O. Box 8  
Chattanooga, TN 37421  
www.superior-industries.com  
**Telephone no.** : (423) 899 - 0467  
**Fax no.** : (423) 899 - 0421  
**In case of emergency** : Home Office: 800-476-2072  
INTERNATIONAL: 423-899-0467  
**Manufacturer** : Superior Industries, Inc.  
P.O. Box 8  
Chattanooga, TN 37401  
www.superior-industries.com  
**Telephone no.** : (423) 899 - 0467  
**Validation date** : 1. September 2014.  
**Print date** : 1. September 2014.  
**Product type** : Liquid.

## 2. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
2-methoxy-1-methylethyl acetate	108-65-6	40 - 45
tert-butyl acetate	540-88-5	5 - 10

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

## 3. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

**Inhalation** : Irritating to respiratory system.  
**Ingestion** : Harmful if swallowed.  
**Skin** : Slightly irritating to the skin.  
**Eyes** : Irritating to eyes.

See toxicological information (section 11)

## 4. First aid measures

**Eye contact** : Check for and remove any contact lenses. Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse.

**Inhalation** : Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. Maintain an open airway.

## 4 . First aid measures

- Ingestion** : Wash out mouth with water. Move exposed person to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5 . Fire-fighting measures

- Flammability of the product** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

### Extinguishing media

- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

### Product name

2-methoxy-1-methylethyl acetate

tert-butyl acetate

### Exposure limits

**AIHA WEEL (United States, 1/2008).**

TWA: 50 ppm 8 hour(s).

**ACGIH TLV (United States).**

TWA: 200 ppm

**OSHA PEL (United States).**

TWA: 200 ppm

- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

## 8 . Exposure controls/personal protection

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 9 . Physical and chemical properties

**Flash point** : Closed cup: 46°C (114.8°F)

**Odor** : Characteristic.

**Boiling/condensation point** : 98°C (208.4°F)

**Density** : ~1.04 g/cm<sup>3</sup>

## 10 . Stability and reactivity

**Stability** : The product is stable.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

**Materials to avoid** : Reactive or incompatible with the following materials:  
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

### Acute toxicity

**Conclusion/Summary** : Not available.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information



## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
<b>DOT Classification</b>	UN1263	Paint	3	III	<b>Remarks</b> DOT Exception Combustible Rule 49CFR 173.150 (f) May Apply
<b>TDG Classification</b>	UN1263	Paint	3	III	-
<b>ADR/RID Class</b>	UN1263	Paint	3	III	-
<b>IMDG Class</b>	UN1263	Paint	3	III	<b>Emergency schedules (EmS)</b> F-E, S-E
<b>IATA-DGR Class</b>	UN1263	Paint	3	III	-

PG\* : Packing group

## 15 . Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: 2-methoxy-1-methylethyl acetate  
**United States inventory (TSCA 8b)**: All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substances**: No products were found.  
**SARA 302/304 emergency planning and notification**: No products were found.  
**SARA 302/304/311/312 hazardous chemicals**: 2-methoxy-1-methylethyl acetate  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: 2-methoxy-1-methylethyl acetate: Fire hazard

**State regulations** :

- Massachusetts Substances:** The following components are listed:  
Polyester Polyol
- New Jersey Hazardous Substances:** The following components are listed:  
Polyester Polyol
- Pennsylvania RTK Hazardous Substances:** The following components are listed:  
Polyester Polyol

**United States inventory (TSCA 8b)** : All components are listed or exempted.

## 16 . Other information

**Hazardous Material Information System (U.S.A.)** :

Health	*	2
Flammability		2
Physical hazards		0
Personal Protection Equipment		D

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS®

## 16 . Other information

The customer is responsible for determining the PPE code for this material.

**Date of printing** : 01.09.2009.  
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☑ Indicates information that has changed from previously issued version.

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# Material Safety Data Sheet

Dyna Glaze Top Coat - Part H

## 1 . Product and company identification

**Product name** : - Dyna Glaze Top Coat Part H  
**Supplier** : Superior Industries, Inc.  
P.O. Box 8  
Chattanooga, TN 37401  
www.superior-industries.com  
**Telephone no.** : (423) 899 - 0467  
**Fax no.** : (423) 899 - 0421  
**In case of emergency** : Toll Free: 800-476-2072  
INTERNATIONAL: 423-899-0467  
**Manufacturer** : Superior Industries, Inc.  
P.O. Box 8  
Chattanooga, TN 37421  
www.superior-industries.com  
**Telephone no.** : (423) 899 - 0467  
**Validation date** : **15. August 2014.**  
**Print date** : 15. August 2014.  
**Product type** : Liquid.

## 2 . Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
POLYISOCYANATE PREPOLYMER	MIXTURE	60 - 100
PROPRIETARY ADDITIVE		5 - 10

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

## 3 . Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

**Inhalation** : Toxic by inhalation. Severely irritating to the respiratory system. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion** : Toxic if swallowed.

**Skin** : Irritating to skin. May cause sensitization by skin contact.

**Eyes** : Irritating to eyes.

See toxicological information (section 11)

## 4 . First aid measures

**Eye contact** : Check for and remove any contact lenses. Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.

**Skin contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse.

## 4 . First aid measures

- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5 . Fire-fighting measures

- Flammability of the product** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 6 . Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

### Product name

hexamethylene-di-isocyanate

### Exposure limits

**ACGIH TLV (United States, 1/2008).**

TWA: 0.03 mg/m<sup>3</sup> 8 hour(s).

TWA: 0.01 ppm 8 hour(s).

**NIOSH REL (United States, 6/2008).**

CEIL: 0.02 ppm 10 minute(s).

CEIL: 140 ug/m<sup>3</sup> 10 minute(s).

TWA: 0.005 ppm 10 hour(s).

TWA: 35 ug/m<sup>3</sup> 10 hour(s).

- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

## 8 . Exposure controls/personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 9 . Physical and chemical properties

- Flash point** : Closed cup: 46°C (114.8°F)
- Odor** : Characteristic.
- Boiling/condensation point** : 163°C (325.4°F)
- Density** : ~1.1 g/cm<sup>3</sup>
- Vapor pressure** : 0.53 kPa (4 mm Hg)

## 10 . Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- Materials to avoid** : Reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

### Potential chronic health effects

- Chronic effects** : Contains material that may cause target organ damage, based on animal data. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

### Acute toxicity

- Conclusion/Summary** : Not available.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
DOT Classification	UN1263	Paint	3	III	-
TDG Classification	UN1263	Paint	3	III	-
ADR/RID Class	UN1263	Paint	3	III	-
IMDG Class	UN1263	Paint	3	III	<b>Emergency schedules (EmS)</b> F-E, S-E
IATA-DGR Class	UN1263	Paint	3	III	-

PG\* : Packing group

## 15 . Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted. TSCA 8(d) H and S data reporting: hexamethylene-di-isocyanate: 1990  
**SARA 302/304/311/312 extremely hazardous substances**: No products were found.  
**SARA 302/304 emergency planning and notification**: No products were found.  
**SARA 302/304/311/312 hazardous chemicals**: No products were found.  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: No products were found.

**United States inventory (TSCA 8b)** : All components are listed or exempted.



## 16 . Other information

**Hazardous Material Information System (U.S.A.) :**

Health	*	2
Flammability		2
Physical hazards		0
Personal Protection Equipment		D

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS®

The customer is responsible for determining the PPE code for this material.

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