



MSDS: 0000876  
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## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CORFIL® 615 Potting Compound**  
Synonyms: None  
Chemical Family: Mixture  
Molecular Formula: Mixture  
Molecular Weight: Mixture

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WOODLAND PARK, NEW JERSEY 07424, USA  
For Product Information call 1-800/652-6013. Outside the USA and Canada call 1-973/357-3193.

**EMERGENCY PHONE (24 hours/day) - For emergency involving spill, leak, fire, exposure or accident call:**

**Asia Pacific:**

Australia - +61-3-9663-2130 or 1800-033-111  
China (PRC) - +86 10 5100 3039 (Carechem24 China)  
New Guinea - +61-3-9663-2130  
New Zealand - +61-3-9663-2130 or 0800-734-607  
All Others - +65 3158 1074 (Carechem24 Singapore)

**Canada:** +1-905-356-8310 (Cytec Welland, Canada plant)

**Europe/Africa/Middle East (Carechem24 UK):**

Europe, Middle East, Africa, Israel - +44 (0) 1235 239 670  
Middle East, Africa (Arabic speaking countries) - +44 (0) 1235 239 671

**Latin America:**

Brazil - 0800 0111 767 (SOS Cotec)  
Chile - +56-2-247-3600 (CITUC QUIMICO)  
All Others - +52-376-73 74122 (Cytec Atequiza, Mexico plant)

**USA:** +1-703-527-3887 or 1-800-424-9300 (CHEMTREC #CCN6083)

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### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**APPEARANCE AND ODOR:**

Color: red-brown  
Appearance: paste  
Odor: sweet

**STATEMENTS OF HAZARD:**

WARNING! CAUSES EYE IRRITATION  
MAY CAUSE ALLERGIC SKIN REACTION

#### POTENTIAL HEALTH EFFECTS

EFFECTS OF EXPOSURE:

The estimated acute oral (rat) LD50, acute dermal (rabbit) LD50 and 4-hour inhalation (rat) LC50 values for this material are >5,000 mg/kg, >2,000 mg/kg and >20 mg/L, respectively. Allergic skin reactions or primary skin irritation may be produced by prolonged or repeated dermal contact with epoxy resins. Exposure to vapor during heat curing may cause irritation or injury of the respiratory tract and eye irritation. Direct contact with this material can cause moderate eye irritation. Refer to Section 11 for toxicology information on the regulated components of this product.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### OSHA REGULATED COMPONENTS

Component / CAS No.	%	Carcinogen
Aliphatic epoxy resin -	1 - 5	-
Phenolic Resin #2 -	15 - 40	-
Silicon dioxide, amorphous (included under CAS # 7631-86-9) 112945-52-5	1.3	-
Phenolic epoxy resin #1 -	60 - 100	-

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### 4. FIRST AID MEASURES

#### Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

#### Skin Contact:

Wash immediately with plenty of water and soap. Remove contaminated clothing and shoes without delay. Obtain medical attention. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.

#### Ingestion:

If swallowed, get medical attention. Administer 250 - 300 ml water to dilute material in the stomach. Only induce vomiting at the instruction of a physician. If vomiting occurs naturally in a conscious person, lean forward to reduce the risk of aspiration. Repeat administration of water as directed by the physician.

#### Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media:

Use water spray or fog, carbon dioxide or dry chemical.

#### Protective Equipment:

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

### Methods For Cleaning Up:

Sweep up into containers for disposal. Flush spill area with water.

### Environmental Precautions:

Use appropriate containment to avoid environmental contamination.

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## 7. HANDLING AND STORAGE

### HANDLING

**Precautionary Measures:** Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

**Special Handling Statements:** None

### STORAGE

This material does not have specific storage conditions. Refer to storage temperature below.

**Storage Temperature:** Room temperature

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures:

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure when spraying or curing at elevated temperatures.

### Respiratory Protection:

Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure. A full facepiece respirator also provides eye and face protection. Cutting, grinding or sanding of parts fabricated after curing may create respirable dust particles. Respiratory protection appropriate for this dust may be required. Refer to components listed above for potential hazardous components in the dust.

### Eye Protection:

Wear eye/face protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure.

### Skin Protection:

Avoid skin contact. Wear impermeable gloves and suitable protective clothing. Barrier creams may be used in conjunction with the gloves to provide additional skin protection.

### Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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## Exposure Limit(s)

### 112945-52-5 Silicon dioxide, amorphous (included under CAS # 7631-86-9)

OSHA (PEL):	20 mppcf
ACGIH (TLV):	Not established
Other Value:	Not established

**112945-52-5 Silicon dioxide, amorphous (included under CAS # 7631-86-9)**

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Color:	red-brown
Appearance:	paste
Odor:	sweet
Boiling Point:	Not applicable
Melting Point:	Not available
Vapor Pressure:	Not applicable
Specific Gravity/Density:	0.672
Vapor Density:	Not applicable
Percent Volatile (% by wt.):	Negligible
pH:	Not applicable
Saturation In Air (% By Vol.):	Not applicable
Evaporation Rate:	Not applicable
Solubility In Water:	negligible
Volatile Organic Content:	0 gm/L
Flash Point:	Not applicable
Flammable Limits (% By Vol):	Not available
Autoignition Temperature:	Not available
Decomposition Temperature:	Not available
Partition coefficient (n-octanol/water):	Not applicable
Odor Threshold:	Not available

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**10. STABILITY AND REACTIVITY**

Stability:	Stable
Conditions To Avoid:	None known
Polymerization:	Will not occur
Conditions To Avoid:	None known
Materials To Avoid:	Strong oxidizing agents and strong bases.
Hazardous Decomposition Products:	oxides of carbon Formaldehyde

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**11. TOXICOLOGICAL INFORMATION**

Toxicological information for the product is found under Section 2. HAZARDS IDENTIFICATION. Toxicological information on the regulated components of this product is as follows:

Aliphatic epoxy resin has acute oral (rat) and dermal (rat) LD50 values both >2,000 mg/kg. This material is moderately irritating to rabbit skin and mildly irritating to rabbit eyes. It produced dermal sensitization in guinea pigs. Aliphatic epoxy resin produced positive results in screening tests for mutagenicity. Chronic dermal exposure produced skin tumors in laboratory animals.

## 11. TOXICOLOGICAL INFORMATION

Phenolic Resin #2 acute toxicity can vary based on residual free phenol monomer content. The acute oral (rat) LD50 value is estimated to be >2000 mg/kg for all grades containing less than 25% free phenol. A grade containing 15-20% free phenol and 2-3% free formaldehyde had an estimated acute oral (rat) LD50 value of 2900 mg/kg. The estimated acute oral (rat) LD50 for low free phenol grades is >5000 mg/kg. The acute dermal (rabbit) LD50 value for all grades containing less than 25% free phenol is estimated to be >2000 mg/kg. In contrast to the oral studies, dermal application of phenolic resins does not evoke a toxic response equivalent to that predicted based upon the free phenol content. Eye irritation studies in rabbits produced irritation which became more severe as the free phenol level increased. These eye irritation effects ranged from mild (<4% free phenol) to severe damage (26% free phenol). Skin irritation studies with rabbits produced minimal irritation with solid resins. Liquid resins evoked a stronger but more variable response ranging from minimal to severe. These responses did not appear to relate solely to free phenol content. Liquid resin test results compared to the results of aqueous phenol alone show the resins to be less irritating than would be predicted on the basis of their free phenol content. One liquid resin with 26% free phenol produced significant skin redness and swelling where as the corresponding concentration of aqueous phenol produced necrosis. Data suggests that liquid resins become more irritating to the skin as their water miscibility increases. Phenolic resins have been reported to produce allergic skin reactions after prolonged or repeated contact. Inhalation of phenolic resin dust or vapor may cause irritation of the eyes, throat and respiratory tract. Laboratory animals fed phenolic resin showed signs of gastrointestinal irritation. It is reported that certain phenolic resins were mutagenic in a number of in-vitro screening assays.

Silicon Dioxide has acute oral (rat) LD50 values ranging from 3160 mg/kg to >7500 mg/kg. The LC50 (rat) following a 4-hour inhalation study is >0.25 mg/L (maximum attainable concentration). Chronic and sub-chronic inhalation tests with laboratory animals produced lung damage and death after the lung clearance mechanisms were overloaded. Amorphous silica does not cause the lung diseases crystalline silica is known to cause.

Phenolic epoxy resin #1 has acute oral (rat) and dermal (rabbit) LD50 values of both >2000 mg/kg. A 4-hour inhalation LC50 (rat) value of >700 mg/m<sup>3</sup> has been reported. Prolonged or repeated exposure may cause primary skin irritation and allergic skin reactions in some instances. Mechanical action of this resin may cause eye irritation upon contact. This resin has produced moderate eye irritation in laboratory animals. This resin has been reported to have tested positive for mutagenicity in the standard Ames screening test as well as in a mouse lymphoma cell point mutation assay. The literature reports several cases of asthmatic symptoms developing in workers due to occupational exposure to this resin. Large oral doses of Phenolic epoxy resin #1 have produced central nervous system effects in laboratory animals.

California Proposition 65 Warning (applicable in California only) - This product contains (a) chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

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## 12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The ecological assessment for this material is based on an evaluation of its components.

## 13. DISPOSAL CONSIDERATIONS

### 13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA `listed hazardous waste` or has any of the four RCRA `hazardous waste characteristics.` Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA `listed hazardous waste`; information contained in Section 15 of this MSDS is not intended to indicate if the product is a `listed hazardous waste.` RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. The Company recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. The Company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

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### 14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

#### US DOT

Dangerous Goods? X

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.

Hazard Class: 9

Packing Group: III

UN/ID Number: UN3077

Transport Label Required:      Miscellaneous  
   Marine Pollutant

Marine Pollutant

Technical Name (N.O.S.):      phenolic epoxy resin(s)

Comments:                              Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

#### TRANSPORT CANADA

Dangerous Goods? X

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.

Hazard Class: 9

Packing Group: III

UN Number: UN3077

Transport Label Required:      Miscellaneous  
   Marine Pollutant

Marine Pollutant

Technical Name (N.O.S.):      phenolic epoxy resin(s)

#### ICAO / IATA

Dangerous Goods? X

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.

Hazard Class: 9

Packing Group: III

UN Number: UN3077

Transport Label Required:      Miscellaneous