

Material Safety Data Sheet

Revision Date: 08/12
Version 2.0

Print Date: 08/20/12
MSDS Identification: 1650CS- Part A

Epoxy Resin

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : 1650CS- Part A

Product Use Description : Epoxy Resin

Company : Protective Floorings and Linings
A Division of Milamar Coatings, LLC
311 N.W. 122nd St, Suite 100
Oklahoma City, OK 73114

Telephone : 405-755-8448

Emergency Telephone Number: ChemTel 800-255-3924 or 813-248-0585 (International)

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Components | CAS Number | Concentration (Weight) |
|-------------------------------------|------------|------------------------|
| Bisphenol A / Epichlorohydrin Resin | 25068-38-6 | 30-45% |
| O-CRESYL GLYCIDYLETHER | 2210-79-9 | 15-22% |

3. HAZARDS INFORMATION

Emergency Overview

Harmful If Swallowed
Skin Sensitization
May Cause Pulmonary Sensitization
Eye Irritation
Skin Irritation

4. FIRST AID MEASURES

Inhalation : Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Skin Contact : Remove contaminated clothing / shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until thoroughly cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

Eye Contact : Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention.

Material Safety Data Sheet

Revision Date: 08/12
Version 2.0

Print Date: 08/20/12
MSDS Identification: 1650CS- Part A

Epoxy Resin

Ingestion : Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention.

NOTES TO PHYSICIAN

Symptoms : Irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives. Lung sensitization (e.g., allergy, asthma) may be evidenced by wheezing with shortness of breath and cough.

Treatment : If more than 2.0 ml per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Use water fog, "alcohol foam", dry chemical or carbon dioxide.

Specific Hazards During Fire Fighting : Material will not burn unless preheated.

Special Protective Equipment For Fire Fighters : Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Including a positive pressure NIOSH approved self-contained breathing apparatus

Personal Precautions : May burn although not readily ignitable. Use cautious judgment when cleaning up large spills. Shut off leaks, if possible without personal risk.

Environmental Precautions : Dike and contain. Contain run-off and dispose of properly.

Clean-up Methods - Small Spillage : Take up with an absorbent material and dispose of properly.

Clean-up Methods - Large Spillage : Remove with vacuum trucks or pump to storage / salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue.

Additional advice : Notify authorities if any exposures to the general public or environment occurs or is likely to occur. See Section 13 for information on disposal.

6. ACCIDENTAL RELEASE MEASURES

: (See Section 15 For Regulatory Information).

Protect People : Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls / Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

Protect The Environment : Prevent from entering the soil, ditches, sewers, waterways and / or groundwater. See Section 12, Ecological Information.

Cleanup : Absorb with material such as sand. Collect in suitable and properly labeled containers. Remove residual with soap and hot water. Solvents are not

Material Safety Data Sheet

Revision Date: 08/12
Version 2.0

Print Date: 08/20/12
MSDS Identification: 1650CS- Part A

Epoxy Resin

recommended for clean up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent MSDS for handling information and exposure guidelines

7. HANDLING AND STORAGE

| | | |
|----------|---|--|
| Handling | : | WARNING! May be slightly toxic if swallowed. May cause skin sensitization. May possibly cause pulmonary sensitization. Containers, even those that have been emptied, can contain hazardous product residues. Minimize skin contact. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before using. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse. |
| Storage | : | Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | | |
|--------------------------|---|---|
| Protective Measures | : | Wear appropriate respirator and protective clothing. |
| Engineering Measures | : | Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for emergency use. |
| Eye Protection | : | Avoid contact with eyes. Wear chemical goggles if there is potential contact with eyes. |
| Skin And Body Protection | : | Avoid prolonged or repeated contact with skin. Wear chemical-resistant gloves and other clothing as required to minimize contact. |
| Respiratory Protection | : | Avoid breathing vapor or mists. Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, Use either a full-face, atmosphere-supplying respirator or air purifying respirator for organic vapors |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-----------------------------|---|---|
| Appearance / Physical State | : | Liquid. |
| Odor | : | Yellow. |
| Flash Point | : | > 93.33 degrees C (>199.99 degrees F) (Setaflash) |
| Vapor Pressure | : | Negligible. |
| Relative Density | : | 1.14. |
| Relative Vapor Density | : | > 1. |
| Solubility In Water | : | Negligible. |

Material Safety Data Sheet

Revision Date: 08/12
Version 2.0

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MSDS Identification: 1650CS- Part A

Epoxy Resin

10. STABILITY AND REACTIVITY

| | | |
|----------------------------------|---|--|
| Materials To Avoid | : | Can react vigorously with strong oxidizing agents, strong lewis or mineral acid, and strong mineral and organic bases, especially primary and secondary aliphatic amines. Reacts with considerable heat release with some curing agents. |
| Hazardous Decomposition Products | : | Carbon monoxide, aldehydes, and acids may be formed during combustion. |
| Hazardous Reactions | : | Hazardous polymerization will not occur. Stable under normal use conditions. |

11. TOXICOLOGICAL INFORMATION

| | | |
|------------------------------|---|---|
| Acute Oral Toxicity | : | Expected to be of low toxicity, LD50 > 2000 mg/kg. |
| Acute Dermal Toxicity | : | Expected to be of low toxicity, LD50 > 2000 mg/kg. |
| Inhalation | : | Not expected to be a relevant route of exposure, however, under conditions where exposure to vapors or mists is possible, could cause respiratory tract irritation. May possibly cause pulmonary sensitization. |
| Skin | : | May be mildly irritating to the skin. Prolonged or repeated liquid contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis. May cause skin sensitization. |
| Eyes | : | May be irritating to the eyes. |
| Ingestion | : | May be slightly toxic and may be harmful if swallowed. |
| Aggravated Medical Condition | : | Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing skin or lung allergies may increase the chance of developing increased allergy symptoms from exposure. |

12. ECOLOGICAL INFORMATION

| | | |
|------------------|---|---|
| Biodegradability | : | This section will be updated as ecological reviews are completed. |
| Toxicity To Fish | : | This section will be updated as ecological reviews are completed. |

13. DISPOSAL CONSIDERATIONS

| | | |
|------------------|---|---|
| Product Disposal | : | If this material becomes a waste, it would not be a hazardous waste RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local and federal regulations. |
|------------------|---|---|

14. TRANSPORT INFORMATION

Material Safety Data Sheet

Revision Date: 08/12 Print Date: 08/20/12
Version 2.0 MSDS Identification: 1650CS- Part A Epoxy Resin

CFR
Proper Shipping Name : not regulated
Class :
UN / ID No. :
Packing Group :

15. REGULATORY INFORMATION

TSCA : All components listed.
EINECS : All components are listed or exempt.
DSL : All components listed.
KECI (KR) : All components listed.
PICCS (PH) : All components listed.
ENCS (JP) : All components listed.
INV (CN) : All components listed.
AICS : All components listed.

U.S. EPA CERCLA Hazardous Substances (40 CFR 302)

Bisphenol A / Epichlorohydrin Resin : No RQ
O-CRESYL GLYCIDYLETHER : No RQ

Section 311 / 312 : Acute Health Hazard

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required.

Bisphenol A / Epichlorohydrin Resin : No De minimis Concentration
O-CRESYL GLYCIDYLETHER : No De minimis Concentration

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A).

Bisphenol A / Epichlorohydrin Resin : Threshold Planning Quantity : No TPQ
O-CRESYL GLYCIDYLETHER : Threshold Planning Quantity : Not Listed

Bisphenol A / Epichlorohydrin Resin : Reportable Quantity : No RQ
O-CRESYL GLYCIDYLETHER : Reportable Quantity : Not Listed

New Jersey Right-To-Know Chemical List

Bisphenol A / Epichlorohydrin Resin : Not Listed
O-CRESYL GLYCIDYLETHER : Not Listed

Additional Components Not Found in Section 2 :

| Components | CAS - No. | Concentration | Remarks |
|-----------------------|-----------|---------------|------------|
| Phenyl Glycidyl Ether | 122-60-1 | < 5 PPM | Not Listed |

Material Safety Data Sheet

Revision Date:08/12

Print Date:08/20/12

Version 2.0

MSDS Identification:1650CS- Part A

Epoxy Resin

Pennsylvania Right-To-Know Chemical List

Bisphenol A / Epichlorohydrin Resin : Not Listed

O-CRESYL GLYCIDYLETHER : Not Listed

Additional Components Not Found In Section 2:

| Components | CAS - No. | Concentration | Remarks |
|-----------------------|-----------|---------------|------------|
| Phenyl Glycidyl Ether | 122-60-1 | < 5 PPM | Not Listed |

Massachusetts Right-To-Know Chemical List.

Bisphenol A / Epichlorohydrin Resin : Not Listed

O-CRESYL GLYCIDYLETHER : Not Listed

Additional Components Not Found In Section 2:

| Components | CAS - No. | Concentration | Remarks |
|-----------------------|-----------|---------------|------------|
| Phenyl Glycidyl Ether | 122-60-1 | < 5 PPM | Not Listed |

U.S. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) Additional Components Not Found in Section 2.

| Components | Concentration | Concentration | Remarks | Value |
|-----------------------|---------------|---|------------|-------------------------|
| Phenyl Glycidyl Ether | < 5 PPM | U.S. California Safe Drinking Water And Toxic Enforcement Act (Proposition 65). | Not Listed | Listed: October 1, 1990 |

HMIS Rating

Health : 2

Flammability : 1

Reactivity : 0

16. OTHER INFORMATION

The information contained above is given in good faith based on the best data available at this time. No warranty, expressed or implied is made. User assumes full responsibility for determining appropriate use and application of the product. Consult PF&L, Inc. for further information.

Prepared By : Protective Floorings and Linings. EH&S Product Safety Department