

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 19110.1200

Effective date: 03.11.2016

Super Sap CCR Epoxy Resin

SECTION 1: Identification

Material name: Super Sap CCR Epoxy Resin

Trade Name: Super Sap CCR Epoxy Resin

Product code: 11_CCR

Recommended use of the product and restriction on use:

Modified liquid epoxy resin.



Manufacturer or supplier details

Manufacturer:

Entropy Resins, Inc.
30621 San Antonio St.
Hayward, CA 94544 USA
1-310-882-2120
info@entropyresins.com

Supplier:

(Europe / Africa / Middle East)
Ferrer-Dalmau
Rosalia de Castro 21
08025 Barcelona, Spain
+34 93 487 40 15
info@entropyresins.eu

Emergency telephone number:

3E Company

Inside USA: 1-760-476-3962

International / not specified: 1-760-476-3962

National Chemical Emergency Helpline

Inside China: +86-0532-8388-9090

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2.

Eye irritation, category 2A.

Skin sensitization, category 1.

Chronic aquatic hazard, category 2.

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

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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.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Identification | Name | Wt. % |
|----------------------------------|--|-------|
| CAS number: 25068-38-6 | Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 85-95 |
| CAS number: 100-51-6 | Benzyl Alcohol | <10 |
| CAS number: 57834-33-0 | Benzoic acid, 4-[[[(methylphenylamino)methylene]amino]-ethyl ester | <10 |
| CAS number: 68609-97-2 | Alkyl (C12-14) glycidyl ether | <10 |

SECTION 4: First aid measures

Description of first aid measures

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position.
Maintain an unobstructed airway.
Get medical advice/attention if you feel unwell.

After skin contact:

Wash affected area with soap and water.
Seek medical attention if symptoms develop or persist.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.
Remove contact lens(es) if able to do so during rinsing.
Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth and then drink plenty of water.
Do not induce vomiting.
Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

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Acute symptoms:

No information available.

Delayed symptoms:

No information available.

Immediate medical attention and special treatment:

No information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing media:

No information available.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing.

Refer to Section 8.

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Additional information:

Heating causes a rise in pressure, risk of bursting and combustion.

Shut off sources of ignition.

Carbon monoxide and carbon dioxide may form upon combustion.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

Environmental precautions:

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay) , acid binders, universal binders).

Dispose of contents / container in accordance with local regulations.

Reference to other sections:

None

SECTION 7: Handling and storage

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Precautions for safe handling:

- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Avoid breathing mist or vapor.
- Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

- Store in a cool, well-ventilated area.
- Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters:

| Component name | Identifier | Permissible concentration |
|----------------|------------|---------------------------|
| Benzyl Alcohol | 100-51-6 | WEEL TWA 10.0 ppm |

Appropriate engineering controls:

- Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

- When necessary, use NIOSH-approved breathing equipment.

Eye protection:

- Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

- Select glove material impermeable and resistant to the substance.

General hygienic measures:

- Wash hands before breaks and at the end of work.
- Avoid contact with skin, eyes and clothing.
- Perform routine housekeeping.
- Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

| | | | |
|--|----------------------------------|--|--|
| Appearance (physical state, color): | Clear/pale yellow liquid | Explosion limit lower: Explosion limit upper: | Not determined or not available. Not determined or not available. |
| Odor: | Slight | Vapor pressure: | Not determined or not available. |
| Odor threshold: | Not determined or not available. | Vapor density: | Not determined or not available. |

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| | | | |
|---------------------------------------|--------------------------------------|---|----------------------------------|
| pH-value: | Not determined or not available. | Relative density: | Not determined or not available. |
| Melting/Freezing point: | Not determined or not available. | Solubilities: | Negligible |
| Boiling point/range: | Not determined or not available. | Partition coefficient (n-octanol/water): | Not determined or not available. |
| Flash point (closed cup): | > 200°C (> 392°F) | Auto/Self-ignition temperature: | Not determined or not available. |
| Evaporation rate: | Not determined or not available. | Decomposition temperature: | Not determined or not available. |
| Flammability (solid, gaseous): | Not determined or not available. | Dynamic viscosity: | 8 - 13 Pa·s @ 25°C |
| Density: | 1100 - 1200 kg/m ³ @ 25°C | Kinematic viscosity: | Not determined or not available. |

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Exposure routes:

No information available.

Acute toxicity:

Oral:

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin: LD50 Rat 13,800 mg/kg.

Benzyl Alcohol: LD50 Rat 1,230 mg/kg.

Skin corrosion/irritation:

Benzyl Alcohol BLK: Rabbit No skin irritation 24h.

Serious eye damage/irritation:

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Benzyl Alcohol BLK: Rabbit Eye irritation 24h.

Respiratory or skin sensitization:

No information available.

Carcinogenicity:

No information available.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

Germ cell mutagenicity:

No information available.

Reproductive toxicity:

No information available.

STOT-single and repeated exposure:

No information available.

Aspiration toxicity:

No information available.

Additional toxicological information

No information available.

SECTION 12: Ecological information

Ecotoxicity:

Benzyl Alcohol: Fish, LC50 - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h.

Benzyl Alcohol: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 55 mg/l - 24 h.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil:

No information available.

Other adverse effects:

No information available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

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SECTION 14: Transportation information


Land transport:

DOT (49 CFR) transport

| | |
|---|---|
| UN Number: | 3082 |
| UN Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin) |
| UN Transport hazard classes: | 9 |
| Packing group: Danger label: | III 9 Miscellaneous dangerous substances and articles  |
| Environmental hazards: | Yes |
| Special precautions for user: | The DOT regulations above apply to Non-Bulk shipments only. Product is not regulated for air, rail and motor vehicle packages less than 119 gal (450 L). Product is regulated by vessel. 49 CFR / Highway, Rail & US Air Transport: Not Regulated per 49 CFR Regulation 171.4 Paragraph C and 172.101 Appendix B. |
| Limited quantity: | 5L |

Air transport:

IATA-DGR

| | |
|---|--|
| UN Number: | 3082 |
| UN Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin) |
| UN Transport hazard classes: | 9 |
| Packing group: Danger label: | III 9 Miscellaneous dangerous substances and articles  |
| Environmental hazards: | Yes |
| Special precautions for user: | None |
| Limited quantity: | 30 kg G (Passenger and cargo aircraft) - Pkg Inst.: |

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| | |
|----------------------------|------------|
| Quantity exception: | Y964 E1 |
|----------------------------|------------|

Sea transport:

IMDG

| | |
|--|---|
| UN Number: | 3082 |
| UN Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin) |
| UN Transport hazard classes: | 9 |
| Packing group: | III |
| Danger label: | 9 Miscellaneous dangerous substances and articles  |
| EMS code: | F-A, S-F |
| Environmental hazards: | Yes |
| Special precautions for user: | None |
| Limited quantity: | 5L - Pkg Inst.: P001 LP01 |
| Quantity exception: | E1 |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable | |

SECTION 15: Regulatory information

North American

SARA Section 311/312 (Specific toxic chemical listings):

Not classified.

SARA Section 302 (Extremely hazardous substances):

None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

TSCA Rules and Orders:

Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

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Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

DSL (Canadian Domestic Substances List):

All ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 2-0-0

HMIS: 2-0-0