

# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

**Trade name or designation of the mixture** Super Sap CCR Epoxy Resin

**Identification Number** Not applicable.

**Registration number** -

**Synonyms** None.

**Date of first issue** 01-June-2012

**Version number** 01

**Revision date** -

**Supersedes date** -

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Liquid epoxy resin for compositions for the building and civil engineering industries e.g. flooring compounds, primers, adhesives, mortars, joints and grouts. Offshore & Marine applications.

**Uses advised against** Not available.

### Details of the supplier of the safety data sheet

**Company name** Entropy Resins

**Address** Hijos De A. Ferrer-Dalmau

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08025 Barcelona

Spain

Contact person: Jaime Ferrer-Delmau

**Telephone** -

**e-mail** info@entropyresins.com

**Emergency telephone** 24/7 Emergency Hotline : 1 (760) 476-3962

**Number** Global Response Access Code: 333178

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** Xi;R36/38, R43, N;R51-53

The full text for all R-phrases is displayed in section 16.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Skin corrosion/irritation	Category 2	Causes skin irritation.
Serious eye damage/eye irritation	Category 2	Causes serious eye irritation.
Skin sensitization	Category 1	May cause an allergic skin reaction.

#### Environmental hazards

Hazardous to the aquatic environment - long-term hazard	Category 2	Toxic to aquatic life with long lasting effects.
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### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Irritating to eyes and skin. May cause sensitisation by skin contact.

**Environmental hazards** Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Specific hazards** Ingestion may cause irritation and malaise.

**Main symptoms** Symptoms include itching, burning, redness, and tearing of eyes. Rash.

### Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** Reaction product:  
bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700)



**Signal word** Warning

**Hazard statements** Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** Wear protective gloves. Wear eye/face protection. Avoid breathing mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

**Response** Collect spillage. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store as indicated in Section 7.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information**

**Other hazards** Contains epoxy constituents. May produce an allergic reaction.

No other specific acute or chronic health impact noted.

**Section 3: Composition/information on ingredients****Mixture****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	50-80	25068-38-6 500-033-5	-	603-074-00-8	
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**Classification:** **DSD:** Xi;R36/38, R43, N;R51-53  
**CLP:** Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411

Oxirane, mono [(C12-14- alkyloxy)methyl] derivatives	10-20	68609-97-2	-	-	
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**Classification:** **DSD:** Xi;R36/38, R43, N;R51-53  
**CLP:** Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411

Benzyl alcohol	<10	100-51-6 202-859-9	-	603-057-00-5	
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**Classification:** **DSD:** Xn;R20/22  
**CLP:** Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Skin Sens. 1;H317, Acute Tox. 4;H332, Aquatic Chronic 2;H411

CLP: Regulation No. 1272/2008.  
DSD: Directive 67/548/EEC.

**Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Get medical attention if any discomfort occurs.
<b>Skin contact</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort occurs. If ingestion of a large amount does occur, call a poison control centre immediately.
<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms include itching, burning, redness, and tearing of eyes. Rash.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

## Section 5: Firefighting measures

<b>General fire hazards</b>	May burn, but does not ignite readily.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Special hazards arising from the substance or mixture</b>	During fire, gases hazardous to health may be formed.
<b>Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
<b>Special firefighting procedures</b>	Water runoff can cause environmental damage.

## Section 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Avoid contact with skin and eyes. See Section 8 for personal protective equipment.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>Environmental precautions</b>	Do not contaminate water. Avoid release to the environment. Refer to special instructions/safety data sheets.
<b>Methods and material for containment and cleaning up</b>	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Prevent product from entering drains.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills in original containers for re-use. For waste disposal, see section 13.
<b>Reference to other sections</b>	See Section 8 for personal protective equipment. For waste disposal, see Section 13.

## Section 7: Handling and storage

<b>Precautions for safe handling</b>	Provide adequate ventilation. Persons with epoxy allergy should not work with this product. Follow special provisions related to work with this material. Avoid contact with skin and eyes. Wear respiratory protection during operations where spraying or misting occurs. Use Personal Protective Equipment recommended in section 8 of the MSDS. Change contaminated clothing. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

**Specific end use(s)** Compositions for the building and civil engineering industries e.g. flooring compounds, primers, adhesives, mortars, joints and grouts.

## Section 8: Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** No exposure limits noted for the ingredient(s).  
**Biological limit values** No biological exposure limits noted for the ingredient(s).  
**Recommended monitoring procedures** Follow standard monitoring procedures.

### DNEL

Not available.

### PNEC

Not available.

### Exposure controls

**Appropriate engineering controls** Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

**General information** Follow special provisions related to work with this material. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Private clothes and working clothes should be kept separately. Make sure to provide adequate control by applying the "COSHH Essentials" procedure.

**Eye/face protection** Wear approved safety goggles.

#### Skin protection

**- Hand protection** Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Use protective gloves made of: Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Suitable gloves can be recommended by the glove supplier.

**- Other** Protection suit must be worn. Seek advice from local supervisor.

**Respiratory protection** No personal respiratory protective equipment normally required. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Observe special requirements if using the product for spraying.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental exposure controls** Environmental manager must be informed of all major releases.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** Clear/pale yellow liquid.

**Physical state** Liquid.

**Form** Liquid.

**Colour** Clear/pale yellow.

**Odour** Slight.

**Odour threshold** Not available.

**pH** Not applicable.

**Melting point/freezing point** Not available.

**Boiling point, initial boiling point, and boiling range** Not available.

**Flash point** > 200 °C (> 392 °F)

**Auto-ignition temperature** Not applicable.

**Flammability (solid, gas)** Not available.

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Density</b>	1100 - 1200 kg/m <sup>3</sup> @ 25 °C
<b>Solubility</b>	Negligible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	Not available.
<b>VOC (Weight%)</b>	Not available.
<b>Percent volatile</b>	Not available.
<b>Other data</b>	
<b>Dynamic viscosity</b>	8 - 13 Pa·s @ 25 °C
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	Reacts with oxidising agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above. Polymerises in contact with bases ( eg caustic soda), ammonia, primary and secondary amines, alcohol's and acids.
<b>Conditions to avoid</b>	Contact with incompatible materials. Heat, flames and sparks. Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	Caustic soda. Strong oxidising agents.
<b>Hazardous decomposition products</b>	None under normal temperatures and pressures.

## Section 11: Toxicological information

<b>General information</b>	Persons with epoxy allergy should not work with this product. Persons with pre-existing skin disorders may be more susceptible to the effects of the product.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms</b>	Symptoms include itching, burning, redness, and tearing of eyes. Rash.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Ingestion may cause irritation and malaise.
<b>Product</b>	<b>Test results</b>
Super Sap CCR Epoxy Resin (Mixture)	Acute Oral LD50 Rat: > 10000 mg/kg
<b>Skin corrosion/irritation</b>	May cause redness and pain.
<b>Serious eye damage/eye irritation</b>	Exposed may experience eye tearing, redness, and discomfort.
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Positive in vitro, but negative in vivo assays.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.

<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not applicable.
<b>Mixture versus substance information</b>	No additional adverse health effects noted.
<b>Other information</b>	Not available.

## Section 12: Ecological information

<b>Toxicity</b>	No toxicity data noted for the ingredient(s).
<b>Persistence and degradability</b>	The product is not readily biodegradable.
<b>Bioaccumulative potential</b>	Has the potential to bioaccumulate.
<b>Mobility</b>	The product is insoluble in water and will sediment in water systems.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Toxic to aquatic life with long lasting effects.

## Section 13: Disposal considerations

<b>Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	16 05 08*
<b>Disposal methods/information</b>	This material and its container must be disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

## Section 14: Transport information

<b>ADR</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
<b>Transport hazard class(es)</b>	9
<b>Subsidiary class(es)</b>	- III
<b>Packing group</b>	Yes.
<b>Environmental hazards</b>	E
<b>Tunnel restriction code</b>	9
<b>Labels required</b>	Not available.
<b>Special precautions for user</b>	
<b>RID</b>	UN3082
<b>UN number</b>	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
<b>UN proper shipping name</b>	9
<b>Transport hazard class(es)</b>	- III
<b>Subsidiary class(es)</b>	Yes.
<b>Packing group</b>	9
<b>Environmental hazards</b>	Not available.
<b>Labels required</b>	
<b>Special precautions for user</b>	UN3082
<b>ADN</b>	Environmentally Hazardous Liquid, N.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
<b>UN number</b>	9
<b>UN proper shipping name</b>	- III
<b>Transport hazard class(es)</b>	Yes.
<b>Subsidiary class(es)</b>	9
<b>Packing group</b>	
<b>Environmental hazards</b>	
<b>Labels required</b>	

**Special precautions for user** Not available.  
**IATA**  
**UN number** UN3082  
**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))  
**Transport hazard class(es)** 9  
**Subsidiary class(es)** - III  
**Packing group** Yes.  
**Environmental hazards** 9  
**Labels required** Not available.  
**Special precautions for user**

**IMDG** UN3082  
**UN number** UN3082  
**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))  
**Transport hazard class(es)** - III  
**Subsidiary class(es)** Yes.  
**Packing group** 9  
**Marine pollutant** F-A, S-F  
**Labels required** Not available.  
**EmS No.**  
**Special precautions for user**



**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### EU Regulations

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V**

Not listed.

**Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)**

Not listed.

**Regulation (EC) No. 1907/2006, Article 59(1). Candidate List**

Not listed.

### Other regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

### National regulations

Not available.

### Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

## Section 16: Other information

### List of abbreviations

DNEL: Derived No-Effect Level.  
PNEC: Predicted No-Effect Concentration. PBT:  
Persistent, bioaccumulative and toxic. vPvB:  
Very Persistent and very Bioaccumulative.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

### Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51 Toxic to aquatic organisms.  
R53 May cause long-term adverse effects in the aquatic environment.  
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.

### Training information

Not available.

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.