

Section 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Trade name or designation of the mixture Super Sap ONE Epoxy Resin

Identification Number Not applicable.

Registration number -

Synonyms None.

Date of first issue 05-March-2015

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 Entropy Resins
30621 San Antonio St.
Hayward, CA 94544 USA
Contact person: Diosdado Rey Banatao
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Telephone info@entropyresins.com

e-mail 24/7 Emergency Hotline : 1 (760) 476-3962

Emergency telephone 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 ≤ 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 ≤ 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

Glycerine Carbonate	<10	931-40-8	-	-	
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Classification: **DSD:**
CLP:

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

General information	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.
Description of first aid measures	
Inhalation	Move to fresh air. Get medical attention if any discomfort occurs.
Skin contact	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.
Eye contact	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.
Ingestion	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.
Most important symptoms and effects, both acute and delayed	Symptoms include itching, burning, redness, and tearing of eyes. Rash.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

Section 5: Firefighting measures

General fire hazards	May burn, but does not ignite readily.
Extinguishing media	
Suitable extinguishing media	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
Advice for firefighters	
Special protective equipment for firefighters	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.
Special firefighting procedures	Water runoff can cause environmental damage.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Avoid contact with skin and eyes. See Section 8 for personal protective equipment.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	Do not contaminate water. Avoid release to the environment. Refer to special instructions/safety data sheets.
Methods and material for containment and cleaning up	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.
Reference to other sections	See Section 8 for personal protective equipment. For waste disposal, see Section 13.

Section 7: Handling and storage

Precautions for safe handling	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.
Conditions for safe storage, including any incompatibilities	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.
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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.
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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.

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

Section 10: Stability and reactivity

Reactivity	Reacts with oxidising agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	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.
Conditions to avoid	Contact with incompatible materials. Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Caustic soda. Strong oxidising agents.
Hazardous decomposition products	None under normal temperatures and pressures.

Section 11: Toxicological information

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

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

Section 12: Ecological information

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

Section 13: Disposal considerations

Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
EU waste code	16 05 08*
Disposal methods/information	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

ADR	
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	E
Tunnel restriction code	9
Labels required	Not available.
Special precautions for user	
RID	
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	
ADN	
UN number	UN3082
UN proper shipping name	Environmentally Hazardous 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	

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	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700))
UN proper shipping name	9
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.