

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

1 Identification of the substance/mixture and of the company/undertaking



1.1 Product identifier

Material Name: Super Sap BRT Epoxy Resin

Trade Name: Super Sap BRT Epoxy Resin

Product code: 11_CCR

1.2 Relevant identified uses of the substance or mixture and uses advised against: Modified liquid epoxy resin

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:	Supplier:
Entropy Resins, Inc.	(Europe / Africa / Middle East)
30621 San Antonio St.	Ferrer-Dalmau
Hayward, CA 94544 USA	Rosalia de Castro 21
1-310-882-2120	08025 Barcelona, Spain
info@entropyresins.com	+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

2 Hazards identification

2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Skin irritation, category 2.

Eye irritation, category 2A.

Skin sensitization, category 1.

Chronic aquatic hazard, category 2.

Hazard-determining components of labeling:

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin

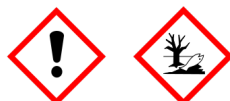
Benzyl Alcohol

Benzoic acid, 4-[[[(methylphenylamino)methylene]amino]-ethyl ester

Alkyl (C12-14) glycidyl ether

2.2 Label elements

Hazard pictograms:



Signal word: Warning

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

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.
- 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.

2.3 Other hazards: None known

Information concerning particular hazards for humans and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients

3.1 Chemical characterization: Mixture.

3.2 Description: None

3.3 Hazardous components (percentages by weight)

Identification	Name	Classification	Wt. %
CAS number: 25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	Skin Sens. 1; H317 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	85-95
CAS number: 100-51-6	Benzyl Alcohol	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Aquatic Acute 2; H401	<10
CAS number: 57834-33-0	Benzoic acid, 4- [[[(methylphenylamino)methylene]amino]-ethyl ester	Acute Tox. 4; H302	<10

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

CAS number: 68609-97-2	Alkyl (C12-14) glycidyl ether	Skin Sens. 1; H317 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	<10
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3.4 Additional information: None.

4 First aid measures

4.1 Description of first aid measures

General information: None.

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.

4.2 Most important symptoms and effects, both acute and delayed:

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters

Protective equipment:

Wear protective eye wear, gloves and clothing.
Refer to Section 8.
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

5.4 Additional information:

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

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.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Ensure air handling systems are operational.
Wear protective eye wear, gloves and clothing.

6.2 Environmental precautions:

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 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.

6.4 Reference to other sections: None

7 Handling and storage

7.1 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.

7.2 Conditions for safe storage, including any incompatibilities:

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

7.3 Specific end use(s): No additional information.

8 Exposure controls/personal protection



8.1 Control parameters:

100-51-6, Benzyl Alcohol, WEEL TWA 10.0 ppm.

8.2 Exposure controls

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

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

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.

9 Physical and chemical properties

9.1 Information on basic 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.
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.

10 Stability and reactivity

10.1 Reactivity: Does not react under normal conditions of use and storage.

10.2 Chemical stability: Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions: None under normal conditions of use and storage.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

10.4 Conditions to avoid: None known.

10.5 Incompatible materials: None known.

10.6 Hazardous decomposition products: None known.

11 Toxicological information

11.1 Information on toxicological effects:

Routes of exposure: 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:

Benzyl Alcohol BLK: Rabbit Eye irritation 24h.

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

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 additional information.

Reproductive Toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Aspiration toxicity: No information available.

Additional toxicological information: No additional information.

12 Ecological information

12.1 Toxicity:

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.

12.2 Persistence and degradability: No additional information.

12.3 Bioaccumulative potential: No additional information.

12.4 Mobility in soil: No additional information.

General notes: No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

12.6 Other adverse effects: No additional information.

13 Disposal considerations

13.1 Waste treatment methods

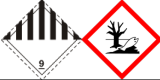
Relevant information:

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

14 Transport information

Land transport:

DOT (49 CFR) transport

14.1 UN Number:	3082
14.2 UN Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)
14.3 UN Transport hazard classes:	9
14.4 Packing group: Danger label:	III 9 Miscellaneous dangerous substances and articles 
14.5 Environmental hazards:	Yes
14.6 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

ADR/RID

14.1 UN Number:	3082
14.2 UN Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)
14.3 UN Transport hazard classes:	9
14.4 Packing group: Danger label:	III 9 Miscellaneous dangerous substances and articles

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

Tunnel restriction code:	E
Transport category:	3
Hazard ID number:	90
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	None
Limited quantity:	5L - Pkg Inst.: P001 IBC03 LP01 R001
Quantity exception:	E1



Air transport: IATA-DGR

14.1 UN Number:	3082
14.2 UN Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)
14.3 UN Transport hazard classes:	9
14.4 Packing group:	III
Danger label:	9 Miscellaneous dangerous substances and articles
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	None
Limited quantity:	30 kg G (Passenger and cargo aircraft) - Pkg Inst.: Y964
Quantity exception:	E1

Sea transport: IMDG


14.1 UN Number:	3082
14.2 UN Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)
14.3 UN Transport hazard classes:	9

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

14.4 Packing group:	III
Danger label:	9 Miscellaneous dangerous substances and articles 
EMS code:	F-A, S-F
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	None
Limited quantity:	5L - Pkg Inst.: P001 LP01
Quantity exception:	E1
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable

15 Regulatory information

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

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.

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

Canadian Domestic Substances List (DSL): All ingredients are listed.

European Union

REACH Article 57 (SVHC): None of the ingredients are listed.

Germany MAK: Not classified.

Australia

Australian Inventory of Chemical Substances (AICS): All ingredients are listed.

China

Inventory of Existing Chemical Substances in China (IECSC):

All ingredients are listed.

Japan

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 03.11.2016

Super Sap BRT Epoxy Resin

Inventory of Existing and New Chemical Substances (ENCS): All ingredients are listed.

Korea

Existing Chemicals List (ECL): All ingredients are listed.

New Zealand

New Zealand Inventory of Chemicals (NZOIC): All ingredients are listed.

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients are listed.

Taiwan

Taiwan Chemical Substance Inventory (TSCI): All ingredients are listed.

16 Other information

Abbreviations and Acronyms: None

Summary of classification in section 3:

Skin Sens. 1; H317	Skin sensitization, category 1
Skin Irrit. 2 ; H315	Skin irritation, category 2
Eye Irrit. 2; H319	Eye irritation, category 2A
Aquatic Chronic 2; H411	Chronic aquatic hazard, category 2
Acute Tox. 4; H302	Acute toxicity (oral), category 4
Acute Tox. 4; H332	Acute toxicity (inhalation), category 4
Aquatic Acute 2; H401	Acute aquatic hazard, category 2

Summary of hazard statements in section 3:

H317	May cause an allergic skin reaction
H315	Causes skin irritation
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
H302	May be harmful if swallowed
H332	May be harmful if inhaled
H401	Toxic to aquatic life

Manufacturer Statement:

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