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

Effective date: 02.25.2016

Super Sap ONE Epoxy Resin

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



1.1 Product identifier

Material name: Super Sap ONE Epoxy Resin Product code: 11-ONE

1.2 Relevant identified uses of the substance or mixture and uses advised against: ONE Epoxy Resin (Part A)

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

Manufacturer:

Supplier:

Entropy Resins, Inc.Europe / Africa / Middle East: Ferrer Dalmau30621 San Antonio St.Ferrer-Dalmau / Rosalia de Castro 21 08025Hayward, CA 94544 USABarcelona, Spain1-310-882-2120+34 93 487 40 15info@entropyresins.cominfo@entropyresins.eu

Emergency telephone number:

3 E Company Emergency

International shipments (Outside of USA and China) : +1-760-476-3962 Shipments within the United States: 1-760-476-3962 For shipments within China: 0532-8388-9090 (National Chemical Emergency)

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. Eye irritation, category 2A. Skin sensitization, category 1. Skin irritation, category 2. Chronic aquatic hazard, category 2.

Hazard-determining components of labeling:

Benzyl Alcohol Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran TK CHEMMOD 8 EPOXY MOD BLK

2.2 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.

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

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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.

P304+P341 If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P403+233 Store in a well ventilated place. Keep container tightly closed.

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: None

3.2 Description: None

3.3 Hazardous components (percentages by weight)

Identification	Name	Classification	Wt. %
CAS number: 100-51-6	Benzyl Alcohol	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Aquatic Acute 2; H401	0.5-6.5
CAS number: 25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Skin Sens. 1; H317 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	50-80
CAS number: 68609-97-2	TK CHEMMOD 8 EPOXY MOD BLK	Skin Sens. 1; H317 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	1-12

3.4 Additional information: None.

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

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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:

Do not use water as an extinguisher.

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:

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

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

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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, diatomaceus 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 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.

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Select glove material based on rates of diffusion and degradation.

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:	Not determined or not available.
Boiling point/range:	Not determined or not available.	Partition coefficient (n- octanol/water):	Not determined or not available.
Flash point (closed cup):	>200C	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:	Not determined or not available.
Density:	1.14	Kinematic viscosity:	Not determined or not available.

10 Stability and reactivity

10.1 Reactivity:

Reacts with oxidizing agents.

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

10.3 Possibility of hazardous reactions:

Polymerises exothermically with amines, mercaptens and Lewis acids at ambient temperature and above. Polymerizes in contact with bases (eg caustic soda), ammonia, primary and secondary amines, alcohol's and acids.

10.4 Conditions to avoid: None known.

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

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10.5 Incompatible materials:

Caustic soda. Strong oxidizing agents.

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:

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

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxiran: LD50 Rat 13,800 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.

12.6 Other adverse effects: No additional information.

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

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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 (number average molecular weight \leq 700))
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	

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 (number average molecular weight \leq 700))
14.3	UN Transport hazard classes:	9
14.4	Packing group:	III
	Danger label:	9 Miscellaneous dangerous substances and articles
	Tunnel restriction code:	None
	Transport category:	None
	Hazard ID number:	None

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3 Effective date: 02.25.2016

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1	.4.5	Environmental hazards:	Yes	
1	.4.6	Special precautions for user:		
		None		

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 (number average molecular weight ≤ 700))
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	

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 (number average molecular weight ≤ 700))
14.3	UN Transport hazard classes:	9
14.4	Packing group:	
	Danger label:	9 Miscellaneous dangerous substances and articles
	EMS code:	None
14.5	Environmental hazards:	Yes
14.6	Special precautions for user: None	

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3 Effective date: 02.25.2016

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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

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

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Summary of classification in section 3:

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

Summary of hazard statements in section 3:

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

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