

EVO-STIK EPOXY RAPID METAL - RESIN
 Supersedes Date: 14-Nov-2018

 Revision Date 14-Nov-2018
 Revision Number 1

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

1.1. Product Identifier

Product Name EVO-STIK EPOXY RAPID METAL - RESIN
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Resin.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik SA
 Immeuble "Le Jade"
 253 Avenue du President Wilson
 93211 La Plaine Saint Denis
 France
 Tel: +33 (0)1 55 99 90 00
 Fax: +33 (0)1 55 99 90 01

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom +44 (1785) 272650
Ireland +353 (1) 8624900 (Monday- Friday 9am-5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|---------------------|
| Skin corrosion/irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Skin sensitisation | Category 1 - (H317) |
| Chronic aquatic toxicity | Category 2 - (H411) |

2.2. Label Elements

Contains: Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW



Signal word
 Warning

Hazard statements

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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

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P391 - Collect spillage
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

No information available

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1 Substances

Mixture

3.2 Mixtures

| Chemical Name | EC No. | CAS No. | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH Registration Number |
|--|-----------|------------|----------|--|---|---------------------------|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW | 500-033-5 | 25068-38-6 | 80 - 100 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) | Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5% | 01-2119456619-26-xxxx |

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Take a copy of the Safety Data Sheet when going for medical treatment.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

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| | |
|---------------------|---|
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor. |
| Ingestion | Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. |

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

Symptoms No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of toxic and corrosive gases/vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Other information Ventilate the area. Prevent further leakage or spillage if safe to do so.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific Use(s)
Resin.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW (25068-38-6)

| | |
|--------------------------------|---|
| Type | Worker Short term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 8.33 mg/kg bw/d |

| | |
|--------------------------------|--|
| Type | Worker Long term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 8.33 mg/kg bw/d |

| | |
|--------------------------------|---|
| Type | Worker Short term Systemic health effects |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 12.25 mg/kg bw/d |

Derived No Effect Level (DNEL)

Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW (25068-38-6)

| | |
|--------------------------------|---|
| Type | Consumer Short term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 3.571 mg/kg bw/d |

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| | |
|--------------------------------|---|
| Type | Consumer Short term Systemic health effects |
| Exposure route | Oral |
| Derived No Effect Level (DNEL) | 0.75 mg/kg bw/d |

| | |
|--------------------------------|--|
| Type | Consumer Long term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 3.571 mg/kg bw/d |

| | |
|--------------------------------|--|
| Type | Consumer Long term Systemic health effects |
| Exposure route | Oral |
| Derived No Effect Level (DNEL) | 0.75 mg/kg bw/d |

Predicted No Effect Concentration (PNEC) No information available.

| Predicted No Effect Concentration (PNEC) | |
|---|--|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW (25068-38-6) | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.006 mg/l |
| Marine water | 0.0006 mg/l |
| Freshwater sediment | 0.996 mg/l |
| Marine sediment | 0.0996 mg/l |
| Soil | 0.196 mg/l |

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Please refer also to Safety Data Sheet of Part B.

Personal Protective Equipment

Eye/face protection Wear safety glasses with side shields (or goggles).
Hand protection Wear protective gloves: Nitrile rubber, Butyl rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and body protection Wear suitable protective clothing.
Respiratory protection Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid
Appearance Paste
Colour dark brown
Odour No information available
Odour Threshold No information available

| Property | Values | Remarks • Method |
|--|-------------------|------------------|
| pH | No data available | |
| Melting point / freezing point | No data available | |
| Boiling point / boiling range | > 250 °C | |
| Flash Point | 250 °C | |
| Evaporation Rate | No data available | |
| Flammability (solid, gas) | No data available | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive | No data available | |

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| | |
|---------------------------|---------------------------------|
| limits | |
| Vapour Pressure | No data available |
| Vapour Density | No data available |
| Relative Density | No data available |
| Water Solubility | Insoluble in water |
| Solubility(ies) | No data available |
| Partition coefficient | No data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Kinematic Viscosity | > 21 mm ² /s @ 40 °C |
| Dynamic Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |

9.2. Other information

| | |
|---------------------------------|--------------------------|
| Solid content (%) | 82.13 |
| Softening Point | No information available |
| Molecular Weight | No information available |
| VOC (volatile organic compound) | No information available |
| Density | 1.1 g/cm ³ |
| Bulk Density | No information available |

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion Data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

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Product information

| | |
|---------------------|---|
| Inhalation | Based on available data, the classification criteria are not met. |
| Eye contact | Causes serious eye irritation. |
| Skin contact | Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| Ingestion | Based on available data, the classification criteria are not met. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

No information available

Acute Toxicity

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------------------|-------------------|-----------------|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | LD50 (rat) > 2000 mg/kg OECD 420 | >2000 mg/Kg (rat) | |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT - single exposure | Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to Micro-organisms | Crustacea | M-Factor |
|---|---|-------------------------------------|-----------------------------|----------------------------|----------|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) | 1.2 mg/l 96Hr (Oncorhynchus mykiss) | - | 2.7 mg/l 48hr Daphia Magna | - |

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| | | | | | |
|--|------------------|--|--|--|--|
| | EPA-660/3-75-009 | | | | |
|--|------------------|--|--|--|--|

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

| Chemical Name | Partition coefficient | Bioconcentration factor (BCF) |
|---|-----------------------|-------------------------------|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | 3.26 | 31 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment . The components in this formulation do not meet the criteria for classification as PBT or vPvB.

| Chemical Name | PBT and vPvB assessment |
|--|---------------------------------|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | The substance is not PBT / vPvB |

12.6. Other adverse effects

Other Adverse Effects No information available.

| Chemical Name | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances |
|--|--|--|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW | Group III Chemical | - |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/ container to an approved landfill.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

Waste codes / waste designations according to EWC / AVV Waste codes should be assigned by the user based on the application for which the product was used.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

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| | |
|---------------------------------|--|
| 14.1 UN Number | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s (Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW) |
| 14.3 Transport hazard class(es) | 9 |
| Labels | 9 |
| 14.4 Packing Group | III |
| Description | UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), 9, III |
| 14.5 Environmental hazards | Yes |
| 14.6 Special Provisions | 274, 335, 601, 375 |
| Classification Code | M6 |
| Limited Quantity (LQ) | 5 L |
| ADR Hazard Id (Kemmler Number) | 90 |

IMDG

| | |
|---|--|
| 14.1 UN Number | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s (Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), Marine Pollutant |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing Group | III |
| Description | UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), 9, III, Marine Pollutant |
| 14.5 Marine Pollutant | P |
| 14.6 Special Provisions | 274, 335, 969 |
| Limited Quantity (LQ) | 5 L |
| EmS-No. | F-A, S-F |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available |

Air transport (ICAO-TI / IATA-DGR)

| | |
|---------------------------------|--|
| 14.1 UN Number | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s (Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing Group | III |
| Description | UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW), 9, III |
| 14.5 Environmental hazards | Yes |
| 14.6 Special Provisions | A97, A158, A197 |
| Limited Quantity (LQ) | 30 kg G |
| ERG Code | 9L |

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

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This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

| | | | |
|---------|--|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals | | |
| STOT RE | Specific target organ toxicity - Repeated exposure | | |
| STOT SE | Specific target organ toxicity - Single exposure | | |
| EWC: | European Waste Catalogue | | |

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 14-Nov-2018

Indication of changes

Revision note Not applicable.

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Training Advice When working with hazardous materials, regular training of operators is required by law

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet