

**EVO-STIK EPOXY RAPID - HARDENER**  
Supersedes Date: 15-Nov-2018

**Revision Date** 19-Mar-2019  
**Revision Number** 1.01

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

### 1.1. Product Identifier

**Product Name** EVO-STIK EPOXY RAPID - HARDENER  
**Pure substance/mixture** Mixture

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

**Recommended use** Curing chemical.  
**Uses advised against** None known

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

#### Company Name

Bostik SA  
420 rue d'Estienne d'Orves  
92700 Colombes  
FRANCE  
Tel: +33 (0)1 49 00 90 00

**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*

|  |                     |
|--|---------------------|
| <b>Skin corrosion/irritation</b>         | Category 2 - (H315) |
| <b>Serious eye damage/eye irritation</b> | Category 2 - (H319) |
| <b>Skin sensitisation</b>                | Category 1 - (H317) |

### 2.2. Label Elements

Contains: 1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-



**Signal word**  
WARNING

#### Hazard statements

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

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## Precautionary statements

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
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  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

Please refer also to Safety Data Sheet of Part A.

## 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

Not applicable

### 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 |
|--|-----------|------------|----------|---|------------------------------------|---------------------------|
| 1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl- | 234-148-4 | 10563-29-8 | 1 - <3   | Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1B (H317)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312) |                                    | 01-2119970376-29-XXXX     |
| Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro-  | 229-713-7 | 6674-22-2  | 0.1 - <1 | Skin Corr. 1B (H314)<br>Acute Tox. 3 (H301)<br>Eye Dam. 1 (H318)  |                                    | 01-2119977097-24-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  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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|   |   |
|---|---|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Do not rub affected area. Get medical attention if irritation develops and persists. |
| <b>Skin contact</b>                       | May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.   |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.  |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).   |

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

**Symptoms** Itching. Rashes. Hives. Burning sensation.

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

**Note to doctors** May cause sensitisation in susceptible persons. 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** Product is or contains a sensitiser. May cause sensitisation by skin contact.

### 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** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. See section 8 for more information.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### 6.3. Methods and material for containment and cleaning up

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**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.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protection recommended in Section 8.

**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.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

### 7.3. Specific end use(s)

**Specific Use(s)**  
Hardener. Curing chemical.

**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

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

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

#### **Personal Protective Equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable 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. Gloves must conform to standard EN 374.

**Skin and body protection** Suitable protective clothing.

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**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

|                        |                          |
|------------------------|--------------------------|
| <b>Physical State</b>  | Liquid                   |
| <b>Appearance</b>      | No information available |
| <b>Colour</b>          | Colourless to yellow     |
| <b>Odour</b>           | Ammonia                  |
| <b>Odour Threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>       | <u>Remarks • Method</u> |
|--|---------------------|-------------------------|
| pH                                     | No data available   |                         |
| Melting point / freezing point         | No data available   |                         |
| Boiling point / boiling range          | > 150 °C            |                         |
| Flash Point                            | 100 °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 limits | No data available   |                         |
| Vapour Pressure                        | No data available   |                         |
| Vapour Density                         | No data available   |                         |
| Relative Density                       | No data available   |                         |
| Water Solubility                       | No data available   |                         |
| Solubility(ies)                        | No data available   |                         |
| Partition coefficient                  | No data available   |                         |
| Autoignition Temperature               | No data available   |                         |
| Decomposition Temperature              | No data available   |                         |
| Kinematic Viscosity                    | No data available   |                         |
| Dynamic Viscosity                      | 10000 - 20000 mPa s | @ 25 °C                 |
| Explosive properties                   | No data available   |                         |
| Oxidising properties                   | No data available   |                         |

### 9.2. Other information

|  |                          |
|--|--------------------------|
| <b>Solid content (%)</b>               | No information available |
| <b>Softening Point</b>                 | No information available |
| <b>Molecular Weight</b>                | No information available |
| <b>VOC (volatile organic compound)</b> | No information available |
| <b>Density</b>                         | 1.14 g/cm <sup>3</sup>   |
| <b>Bulk Density</b>                    | 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

|   |       |
|---|-------|
| <b>Sensitivity to mechanical impact</b> | None. |
| <b>Sensitivity to static discharge</b>  | None. |

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## 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 Strong acids. Strong bases. Strong oxidising agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Ammonia. Amines.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### Product information

Inhalation May cause irritation of respiratory tract.  
Eye contact Causes serious eye irritation.  
Skin contact May cause sensitisation by skin contact. Causes skin irritation.  
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

#### Numerical measures of toxicity

##### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 12,123.00 mg/kg  
ATEmix (dermal) 36,789.00 mg/kg

##### Component Information

| Chemical Name   | Oral LD50                 | Dermal LD50 | Inhalation LC50 |
|---|---------------------------|-------------|-----------------|
| Pyrimido[1,2-a]azepine,<br>2,3,4,6,7,8,9,10-octahydro-<br>6674-22-2 | DL50 >215<681 mg/kg (Rat) |             |                 |

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

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|  |   |
|--|---|
| <b>Respiratory or skin sensitisation</b> | May cause sensitisation by skin contact.                          |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met. |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

| Chemical Name  | Algae/aquatic plants | Fish                             | Toxicity to Micro-organisms | Crustacea | M-Factor |
|--|----------------------|----------------------------------|-----------------------------|-----------|----------|
| Pyrimido[1,2-a]zazepine, 2,3,4,6,7,8,9,10-octahydro-<br>ro-<br>6674-22-2 | -                    | 100-220 mg/l<br>(leuciscus idus) | -                           | -         | -        |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information available.

### 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         |
|--|---------------------------------|
| 1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-<br>10563-29-8 | The substance is not PBT / vPvB |
| Pyrimido[1,2-a]zazepine, 2,3,4,6,7,8,9,10-octahydro-<br>6674-22-2  | The substance is not PBT / vPvB |

### 12.6. Other adverse effects

**Other Adverse Effects** No information available.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b>                     | Dispose of contents/ container to an approved landfill.   |
| <b>Contaminated packaging</b>                                  | Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.  |
| <b>Waste codes / waste designations according to EWC / AVV</b> | Waste codes should be assigned by the user based on the application for which the product was used. |
| <b>Other information</b>                                       | 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)

|                                 |                |
|---------------------------------|----------------|
| 14.1 UN Number                  | Not regulated  |
| 14.2 Proper Shipping Name       | Not regulated  |
| 14.3 Transport hazard class(es) | Not regulated  |
| 14.4 Packing Group              | Not regulated  |
| 14.5 Environmental hazards      | Not applicable |
| 14.6 Special Provisions         | None           |

### IMDG

|   |                          |
|---|--------------------------|
| 14.1 UN Number  | Not regulated            |
| 14.2 Proper Shipping Name   | Not regulated            |
| 14.3 Transport hazard class(es)   | Not regulated            |
| 14.4 Packing Group  | Not regulated            |
| 14.5 Marine Pollutant   | Np                       |
| 14.6 Special Provisions   | None                     |
| 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                  | Not regulated  |
| 14.2 Proper Shipping Name       | Not regulated  |
| 14.3 Transport hazard class(es) | Not regulated  |
| 14.4 Packing Group              | Not regulated  |
| 14.5 Environmental hazards      | Not applicable |
| 14.6 Special Provisions         | None           |

## 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)**

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## **SVHC: Substances of Very High Concern for Authorisation:**

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).

## **Substance subject to authorisation per REACH Annex XIV**

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

## **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**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H301 - Toxic if swallowed

#### **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** 19-Mar-2019

#### **Indication of changes**

**Revision note** SDS sections updated: 2, 3.

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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**