

**EPONAL 336 - RESIN**  
Supersedes Date: 29-May-2017

Revision Date 29-May-2017  
Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**Product Name** EPONAL 336 - 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

**Emergency Telephone** No information available

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

<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)
<b>Chronic aquatic toxicity</b>	Category 2 - (H411)

### 2.2. Label Elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs., Formaldehyde, polymer with (chloromethyl)oxirane and phenol

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**Signal Word**  
WARNING

## 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  
EUH205 - Contains epoxy constituents. May produce an allergic reaction

## Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves and eye/face protection  
P273 - Avoid release to the environment  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Special provisions concerning the labelling of certain mixtures

Please refer also to Safety Data Sheet of Part B

## 2.3. Other Hazards

### General 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	40 - <80	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
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	271-846-8	68609-97-2	10 - <20	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)		01-2119485289-22 -XXXX
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	500-006-8	9003-36-5	10 - <20	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)		01-2119454392-40 -XXXX

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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

<b>General Advice</b>	Remove/Take off immediately all contaminated clothing. If medical advice is needed, have product container or label at hand.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eyelids apart and consult an physician.
<b>Ingestion</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).
<b>Self-protection of the first aider</b>	First aider: Pay attention to self-protection.

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

<b>Symptoms</b>	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	None.
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## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

#### Unsuitable Extinguishing Media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses.

## Section 6: ACCIDENTAL RELEASE MEASURES

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## 6.1. Personal precautions, protective equipment and emergency procedures

### **Personal Precautions**

Use personal protection equipment. Avoid contact with skin, eyes or clothing.

### **For emergency responders**

Use personal protection recommended in Section 8.

## 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil.

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

### **Methods for Containment**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

### **Methods for cleaning up**

Cover liquid spill with sand, earth or other non-combustible absorbent material. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Cover powder spill with plastic sheet or tarp to minimise spreading.

## 6.4. Reference to other sections

### **Reference to other sections**

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Special Precautions. Please refer also to Safety Data Sheet of Part B. For application method and dose rate, refer to the technical data sheet. Important: Do not leave mixed material in the container - curing in bulk can lead to excessive heat. No special fire protection measures are necessary.

#### **General Hygiene Considerations**

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

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

#### **Storage Conditions**

Keep away from food, drink and animal feedingstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

### 7.3. Specific end use(s)

#### **Specific Use(s)**

Binder. Observe technical data sheet.

#### **Other Information**

Recommendation(s). Observe technical data sheet.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

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Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

**Derived No Effect Level (DNEL)** No information available

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

## 8.2. Exposure controls

**Engineering Controls** Provide local exhaust ventilation, in the case of spray application. Please refer also to Safety Data Sheet of Part B.

### Personal Protective Equipment

#### Eye/Face Protection

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

#### Hand Protection

Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use: Nitrile rubber. Butyl rubber. Leather. Disposable gloves. Break through time. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. 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 should be replaced regularly and if there is any sign of damage to the glove material. Unsuitable gloves materials:.

#### Skin and Body Protection

Wear suitable protective clothing.

#### Respiratory Protection

In case of inadequate ventilation wear respiratory protection. During spraying wear suitable respiratory equipment. For short term use: Filtering device (DIN EN 147).

#### Recommended Filter type:

Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

**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>	Liquid
<b>Colour</b>	Colourless to pale yellow
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling Point	No information available	
Flash Point	> 100 °C / > 212 °F	CC (closed cup)
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapour Pressure	No information available	
Vapour Density	No information available	
Relative Density	No information available	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Explosive Properties	No information available	
Explosive Limits	No information available	
Upper	No information available	

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Lower	No information available	
<b>Oxidising Properties</b>	No information available	
<b>Kinematic Viscosity</b>	No information available	
<b>Dynamic Viscosity</b>	700 - 1200 mPa s	@ 23 °C
<b>9.2. Other information</b>		
<b>Softening Point</b>	No information available	
<b>Molecular Weight</b>	No information available	
<b>Solvent content (%)</b>	No information available	
<b>Solid content (%)</b>	No information available	
<b>Density</b>	1.11 g/cm <sup>3</sup>	
<b>Bulk Density</b>	No Data Available	
<b>VOC content (%)</b>		

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions.

### 10.2. Chemical 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**

After mixing the two components, the curing reaction starts. In bulk this reaction can be vigorous.

### 10.4. Conditions to avoid

None known based on information supplied.

### 10.5. Incompatible materials

Exothermic reaction with. Amines. Alcohols.

### 10.6. Hazardous decomposition products

None under normal use and recommended storage conditions.

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

#### **Product Information**

No information or data specific to the product on this toxicological (health) effect is available.

**Inhalation** No Data Available.

**Eye contact** No Data Available.

**Skin Contact** No Data Available.

**Ingestion** No Data Available.

**Sensitisation** May cause sensitisation by skin contact. People who suffer from skin sensitisation problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

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<b>Skin Corrosion/Irritation</b>	Irritant effect on the skin.
<b>Serious eye damage/eye irritation</b>	Irritant effect on the eyes.
<b>Sensitisation</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Aspiration Hazard</b>	Not applicable.

## Numerical measures of toxicity

### Acute Toxicity

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

ATEmix (oral)	7,500.00 mg/kg
ATEmix (dermal)	16,335.00 mg/kg

## Component Information

**Toxicity Data** No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6	LD50 (rat) > 2000 mg/kg	>2000 mg/Kg (rat)	-
Oxirane, mono[(C12-14-alkyloxy)methyl] deriv. 68609-97-2	= 17100 mg/kg ( Rat )	LD50 >4000 mg/Kg Rabbit	-
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	> 2 g/kg ( Rat )	LD50 > 2000 mg/kg ( Rat ) (OECD 402)	-

## **Section 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

**Ecotoxicity** Classification is shown in section 2 of this SDS

### Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea	M-Factor
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6	-	1.2 mg/l 96Hr (Oncorhynchus mykiss)	2.7 mg/l 48hr Daphia Magna	

### 12.2. Persistence and degradability

No information available.

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## 12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other Adverse Effects

No information available

### Endocrine Disruptor Information

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Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6	Group III Chemical	

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Handle contaminated packages in the same way as the product itself.

**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: TRANSPORTATION INFORMATION

### ADR

**14.1 UN/ID no** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)  
**14.3 Hazard Class** 9  
**Hazard Labels** 9  
**14.4 Packing Group** III  
**Description** UN3082, Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III, (E)  
**14.5 Environmental Hazard** yes  
**14.6 Special Provisions** 274, 335, 601, 375  
**Classification Code** M6  
**Tunnel restriction code** (E)  
**Limited Quantity (LQ)** 5 L  
**ADR Hazard Id (Kemmler Number)** 90



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## IMDG

14.1 UN/ID no UN3082  
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)  
14.3 Hazard Class 9  
14.4 Packing Group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III  
14.5 Marine Pollutant Np  
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

## RID

14.1 UN/ID no UN3082  
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)  
14.3 Hazard Class 9  
14.4 Packing Group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III  
14.5 Environmental Hazard Classification Code yes  
M6  
14.6 Special Provisions None  
Limited Quantity (LQ) 5 L

## ICAO (air)

14.1 UN/ID no UN3082  
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)  
14.3 Hazard Class 9  
14.4 Packing Group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III  
14.5 Environmental Hazard yes  
14.6 Special Provisions A97, A158, A197

## IATA

14.1 UN/ID no UN3082  
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)  
14.3 Hazard Class 9  
14.4 Packing Group III  
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Epoxide Derivatives, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III  
14.5 Environmental Hazard 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

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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**

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

## **National Regulations**

### **France**

### **Germany**

#### **Ordinance on Industrial Safety and Health - Germany - BetrSichV**

No flammable liquids in accordance with BetrSichV

### **Netherlands**

#### **List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)**

Not Listed

## **15.2. Chemical safety assessment**

No information available

## **Section 16: OTHER INFORMATION**

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

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## 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:

## 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** 29-May-2017

## Indication of changes

**Revision Note** Not applicable.

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

**Additional information** No information available

**This 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 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**