

**EVO-STIK EPOXY POWER - RESIN**  
Supersedes Date: 15-Nov-2018

Revision Date 15-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 POWER - 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

<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

Contains: Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol



**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 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 diglycidyl ether	216-823-5	1675-54-3	80 - 100	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C <sub>2</sub> ≥5% Skin Irrit. 2 :: C <sub>2</sub> ≥5%	No data available
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	500-006-8	9003-36-5	5 - <10	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)		01-2119454392-40-XXXX
Glycidoxypropyltrimethoxysilane	219-784-2	2530-83-8	1 - <3	Eye Dam. 1 (H318)		01-2119513212-58-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)

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
<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. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	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

<b>Symptoms</b>	May cause redness and tearing of the eyes. May cause allergic skin reaction. Irritating to skin.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Full water jet. Do not scatter spilled material with high pressure water streams.

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

<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of toxic and corrosive gases/vapours.
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### 5.3. Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. See section 8 for more information.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

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**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.

## **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** Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

### 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)

**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

Chemical Name	European Union	Ireland	United Kingdom
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> *	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 600 ppm STEL: 780 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> Sk*

**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

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Data Sheet of Part B.

## Personal Protective Equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Wear protective gloves: Wear protective nitrile rubber gloves, 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.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	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>	Light yellow
<b>Odour</b>	Slight
<b>Odour Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	
<b>Melting point / freezing point</b>	No data available	
<b>Boiling point / boiling range</b>	> 200 °C	
<b>Flash Point</b>	150 °C	
<b>Evaporation Rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapour Pressure</b>	No data available	
<b>Vapour Density</b>	No data available	
<b>Relative Density</b>	No data available	
<b>Water Solubility</b>	No data available	
<b>Solubility(ies)</b>	No data available	
<b>Partition coefficient</b>	No data available	
<b>Autoignition Temperature</b>	No data available	
<b>Decomposition Temperature</b>	No data available	
<b>Kinematic Viscosity</b>	No data available	
<b>Dynamic Viscosity</b>	8 - 12 Pa.s	@ 25 °C
<b>Explosive properties</b>	No data available	
<b>Oxidising properties</b>	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>	1.15 g/cm <sup>3</sup>
<b>Bulk Density</b>	No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

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## 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

##### **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** May cause redness and tearing of the eyes. May cause allergic skin reaction.

#### Numerical measures of toxicity

No information available

#### **Acute Toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A diglycidyl ether 1675-54-3	= 11300 µL/kg ( Rat )	LD50 >2000 mg/Kg (Rat)	
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	> 2 g/kg ( Rat )	LD50 > 2000 mg/kg ( Rat ) (OECD 402)	

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Glycidoxypropyltrimethoxysilane 2530-83-8	= 8025 mg/kg (rat)	= 4250 mg/kg ( Rabbit )	> 5.3 mg/L ( Rat ) 4 h
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## Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<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** Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Glycidoxypropyltrimethoxysilane 2530-83-8	-	LC50 (96h) = 55 mg/L (Cyprinus carpio) OECD 203	-	EC50 (48h) =473 mg/L Daphnia magna	-

### 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)
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	3.6	-

### 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.

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Chemical Name	PBT and vPvB assessment
Bisphenol A diglycidyl ether 1675-54-3	The substance is not PBT / vPvB
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	The substance is not PBT / vPvB
Glycidoxypropyltrimethoxysilane 2530-83-8	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 diglycidyl ether	Group II Chemical	-

## 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>European Waste Catalogue</b>	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
<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)

<b>14.1 UN Number</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
<b>14.3 Transport hazard class(es)</b>	9
<b>Labels</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special Provisions</b>	274, 335, 601, 375
<b>Classification Code</b>	M6
<b>Limited Quantity (LQ)</b>	5 L
<b>ADR Hazard Id (Kemmler Number)</b>	90

### IMDG

<b>14.1 UN Number</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), Marine Pollutant
<b>14.3 Transport hazard class(es)</b>	9



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<b>14.4 Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III, Marine Pollutant
<b>14.5 Marine Pollutant</b>	P
<b>14.6 Special Provisions</b>	274, 335, 969
<b>Limited Quantity (LQ)</b>	5 L
<b>EmS-No.</b>	F-A, S-F
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

## Air transport (ICAO-TI / IATA-DGR)

<b>14.1 UN Number</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s (Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s (Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special Provisions</b>	A97, A158, A197
<b>Limited Quantity (LQ)</b>	30 kg G
<b>ERG Code</b>	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**

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

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## 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

#### 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** 15-Nov-2018

### Indication of changes

**Revision note** Not applicable.

**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**

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

### 1.1. Product Identifier

**Product Name** EVO-STIK EPOXY POWER - 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  
 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

<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 3 - (H412)

### 2.2. Label Elements

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



**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  
H412 - Harmful 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  
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

## 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) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Acute Tox. 4 (H302) 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) Acute Tox. 3 (H301) Eye Dam. 1 (H318)		01-2119977097-24-XXXX
Phenol, nonyl-, phosphite (3:1)	247-759-6	26523-78-4	0.1 - <1	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		01-2119520601-54-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

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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)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately 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. 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.

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**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

**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)**  
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

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**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.  
**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** No information available  
**Colour** Light yellow  
**Odour** Ammonia  
**Odour Threshold** 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	10 - 20 Pa.s	@ 25 °C
Explosive properties	No data available	
Oxidising properties	No data available	

### 9.2. Other information

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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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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 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 Irritating to eyes. Causes serious eye irritation.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). 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) 9,467.00 mg/kg  
ATEmix (dermal) 36,789.00 mg/kg

##### Component Information



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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro- 6674-22-2	DL50 >215<681 mg/kg (Rat)		
Phenol, nonyl-, phosphite (3:1) 26523-78-4	= 10000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	

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

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<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** Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro- ro- 6674-22-2	-	100-220 mg/l (leuciscus idus)	-	-	-
Phenol, nonyl-, phosphite (3:1) 26523-78-4	-	LC50: <10mg/L (96h, Brachydanio rerio)	-	EC50: =0.42mg/L (48h, Daphnia magna)	-

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

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**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-10563-29-8	The substance is not PBT / vPvB
Pyrimido[1,2-a]zazepine, 2,3,4,6,7,8,9,10-octahydro-6674-22-2	The substance is not PBT / vPvB

## 12.6. Other adverse effects

**Other Adverse Effects** No information available.

## 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.

**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)

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

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## 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**

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)

#### **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  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H301 - Toxic if swallowed

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

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**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** 15-Nov-2018

## Indication of changes

**Revision note** Not applicable.

**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**