

## Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 370673

V001.0 Revision: 14.05.2021

printing date: 19.07.2021 Replaces version from: -

Loctite Power Epoxy Universal 5 min

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

#### 1.1. Product identifier

Loctite Power Epoxy Universal, A

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

Intended use:

2-Component epoxy adhesive

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

Henkel Ltd

Wood Lane End

HP24RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

## Label elements (CLP):

Hazard pictogram:



Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular

weight≤700)

Signal word: Warning

**Hazard statement:** 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 statement:** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/eye protection.

P501 Dispose of contents/container in accordance with national regulation.

#### 2.3. Other hazards

Persons suffering from allergic reactions to epoxides should avoid contact with the product. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### General chemical description:

Reaction resin

#### Base substances of preparation:

Epoxy resin

## Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
reaction product: bisphenol-A-		80- < 100 %	Skin Sens. 1
(epichlorhydrin); epoxy resin (number			H317
average molecular weight≤700)			Eye Irrit. 2
25068-38-6			H319
			Skin Irrit. 2
			H315
			Aquatic Chronic 2
			H411

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

SKIN: Redness, inflammation.

May cause an allergic skin reaction.

Causes serious eye irritation.

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

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

## Extinguishing media which must not be used for safety reasons:

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

### 5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

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

Wear protective equipment.

Danger of slipping on spilled product.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

### **6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

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

### 7.1. Precautions for safe handling

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

#### Hy giene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Store in sealed original container.

Store frost-free.

Store protected from heat influence.

Temperatures between + 5 °C and + 30 °C

Store in a cool, dry place.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

#### 7.3. Specific enduse(s)

2-Component epoxy adhesive

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational Exposure Limits**

Valid for

Great Britain

None

#### **Occupational Exposure Limits**

Valid for

Ireland

None

#### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

#### Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.1 mm

Perforation time > 480 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

## Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

#### Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

#### Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance liquid Slightly Hazy

colourless, transparent slightly

Odour threshold No data available / Not applicable

pH Not applicable

Melting pointNo data available / Not applicableSolidification temperatureNo data available / Not applicableInitial boiling pointNo data available / Not applicable

Flash point  $> 280 \,^{\circ}\text{C} (> 536 \,^{\circ}\text{F})$ 

Evaporation rate

No data available / Not applicable
Flammability

No data available / Not applicable
Explosive limits

No data available / Not applicable
Vapour pressure

No data available / Not applicable
Relative vapour density:

No data available / Not applicable

Density 1,1 - 1,18 g/cm3

(23 °C (73.4 °F))

Odor

Bulk density

No data available / Not applicable
Solubility

No data available / Not applicable

Solubility (qualitative) Insoluble

(23 °C (73.4 °F); Solvent: Water)

Partition coefficient: n-octanol/water No data available / Not applicable Auto-ignition temperature No data available / Not applicable Decomposition temperature No data available / Not applicable

Viscosity 20.000 - 30.000 mPa.s

(Brookfield; 23 °C (73.4 °F))

Viscosity (kinematic)

No data available / Not applicable
Explosive properties

No data available / Not applicable
Oxidising properties

No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None if used for intended purpose.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

None if used for intended purpose.

#### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

None known.

## **SECTION 11: Toxicological information**

## General toxicological information:

Persons suffering from allergic reactions to epoxides should avoid contact with the product.

Cross-reactions with other epoxide compounds possible.

## 11.1. Information on toxicological effects

## Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
reaction product:	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
bisphenol-A-				
(epichlorhydrin); epoxy				
resin (number average				
molecular weight≤700)				
25068-38-6				

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
reaction product:	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
bisphenol-A-				
(epichlorhydrin); epoxy				
resin (number average				
molecular weight≤700)				
25068-38-6				

## Acute inhalative toxicity:

No data available.

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
reaction product:	not irritating	4 h	rabbit	not specified
bisphenol-A-				
(epichlorhydrin); epoxy				
resin (number average				
molecular weight≤700)				
25068-38-6				

## Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
reaction product:	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
bisphenol-A-				
(epichlorhydrin); epoxy				
resin (number average				
molecular weight≤700)				
25068-38-6				

## Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

## Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study/ Route of administration	Metabolic activation / Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	negative	oral: gavage		mouse	not specified

## Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	not carcinogenic	dermal	2 y daily	mouse	male	OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	not carcinogenic	oral: gavage	2 y daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)

# Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
reaction product:	NOAEL P >= 50  mg/kg	Two	oral: gavage	rat	OECD Guideline 416 (Two-
bisphenol-A-		generation			Generation Reproduction
(epichlorhydrin); epoxy	NOAEL F1 $>= 750 \text{ mg/kg}$	study			Toxicity Study)
resin (number average		-			
molecular weight≤700)	NOAEL F2 $>= 750 \text{ mg/kg}$				
25068-38-6					

## STOT-single exposure:

No data available.

## STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
reaction product:	NOAEL 50 mg/kg	oral: gavage	14 w	rat	OECD Guideline 408
bisphenol-A-			daily		(Repeated Dose 90-Day
(epichlorhydrin); epoxy					Oral Toxicity in Rodents)
resin (number average					
molecular weight≤700)					
25068-38-6					

## Aspiration hazard:

No data available.

# **SECTION 12: Ecological information**

## General ecological information:

Do not empty into drains, soil or bodies of water.

## 12.1. Toxicity

## Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
reaction product: bisphenol-A-	LC50	1,75 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
(epichlorhydrin); epoxy resin		-			Acute Toxicity Test)
(number average molecular					-
weight≤700)					
25068-38-6					

## Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	S pe cies	Method
CAS-No.	type				
reaction product: bisphenol-A-	EC50	1,7 mg/l	48 h	Daphnia magna	OECD Guideline 202
(epichlorhydrin); epoxy resin					(Daphnia sp. Acute
(number average molecular					Immobilisation Test)
weight≤700)					
25068-38-6					

## Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		_		
reaction product: bisphenol-A-	NOEC	0,3 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
(epichlorhydrin); epoxy resin					magna, Reproduction Test)
(number average molecular					
weight≤700)					
25068-38-6					

## Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight < 700) 25068-38-6	EC50	> 11 mg/l	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight \le 700) 25068-38-6	NOEC	4,2 mg/l	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)

## Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
reaction product: bisphenol-A-	IC50	> 100 mg/l	3 h	activated sludge, industrial	other guideline:
(epichlorhydrin); epoxy resin					
(number average molecular					
weight≤700)					
25068-38-6					

## 12.2. Persistence and degradability

Haz ardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
reaction product: bisphenol-A-	not readily biodegradable.	aerobic	5 %	28 d	OECD Guideline 301 F (Ready
(epichlorhydrin); epoxy resin					Biodegradability: Manometric
(number average molecular					Respirometry Test)
weight≤700)					
25068-38-6					

## 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

Hazardous substances	LogPow	Tempe rature	Method
CAS-No.			
reaction product: bisphenol-A-	3,242	25 °C	EU Method A.8 (Partition Coefficient)
(epichlorhydrin); epoxy resin			
(number average molecular			
weight≤700)			
25068-38-6			

## 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

## 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code 080409

## **SECTION 14: Transport information**

## 14.1. UN number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

## 14.2. UN proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

## 14.3. Transport hazard class(es)

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

## 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

## 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	Marine pollutant
IATA	not applicable

#### 14.6. Special precautions for user

ADR not applicable

Tunnelcode:
RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Not applicable

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

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.

#### **Further information:**

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (ua-productsafety.de@henkel.com) prior to export to other territories than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

#### Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.



# Safety Data Sheet according to (EC) No 1907/2006 as amended Page 1 of 16

SDS No.: 370672

V001.0

Revision: 14.05.2021

printing date: 19.07.2021 Replaces version from: -

Loctite Power Epoxy Universal 5 min

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

#### 1.1. Product identifier

Loctite Power Epoxy Universal, B

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

Intended use:

2-Component epoxy adhesive

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

Henkel Ltd

Wood Lane End

HP24RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Serious eye damage Category 1

H318 Causes serious eye damage.

#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



Contains 1,2-Ethanediamine, N-(2-aminoethyl)-, polymer with oxirane

Diethy lenetriamine

Signal word: Danger

**Hazard statement:** H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

**Precautionary statement:** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/eye protection.

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 waste and residues in accordance with local authority requirements.

#### 2.3. Other hazards

Persons suffering from allergic reactions to amines should avoid contact with the product.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### General chemical description:

Hardener

#### Base substances of preparation:

Poly mercaptan

## Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
1,2-Ethanediamine, N-(2-aminoethyl)-,		5- < 10 %	Eye Dam. 1
polymer with oxirane			H318
28063-82-3			
Diethylenetriamine	203-865-4	1- < 3 %	Acute Tox. 4; Oral
111-40-0	01-2119473793-27		H302
			Acute Tox. 4; Dermal
			H312
			Skin Corr. 1B
			H314
			Skin Sens. 1
			H317
			Acute Tox. 2; Inhalation
			H330
			STOT SE 3
			H335
			Eye Dam. 1
			H318
1,4-Diazabicyclooctane	205-999-9	1- < 3 %	Acute Tox. 4; Oral
280-57-9	01-2119980944-22		H302
			Skin Irrit. 2; Dermal
			H315
			Eye Dam. 1
			H318
			Flam. Sol. 1
			H228

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

May cause an allergic skin reaction.

SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

#### Extinguishing media which must not be used for safety reasons:

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

## **SECTION 6: Accidental release measures**

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

Wear protective equipment.

Ensure adequate ventilation.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

## 6.4. Reference to other sections

See advice in section 8

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

#### 7.1. Precautions for safe handling

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

Hy giene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

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

Store in sealed original container.

Store frost-free.

Store protected from heat influence.

Temperatures between + 5 °C and + 30 °C

Do not store together with food or other consumables (coffee, tea, to bacco, etc.).

### 7.3. Specific enduse(s)

2-Component epoxy adhesive

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Occupational Exposure Limits

Valid for

Great Britain

In gre dient [Regulated substance]	ppm	mg/m <sup>3</sup>		Shortterm exposure limit category/Remarks	Regulatorylist
2,2'-Iminodi(ethylamine) 111-40-0 [2,2'-IMINODI(ETHYLAMINE)]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
2,2'-Iminodi(ethylamine) 111-40-0 [2,2'-IMINODI(ETHYLAMINE)]	1	4,3	Time Weighted Average (TWA):		EH40 WEL

## **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	• 1	Short term exposure limit	Regulatorylist
				category/Remarks	
2,2'-Iminodi(ethylamine)	1	4	Time Weighted Average		IR_OEL
111-40-0			(TWA):		
[DIET HYLENE TRIAMINE]					
2,2'-Iminodi(ethylamine)			Skin designation:	Can be absorbed through the	IR_OEL
111-40-0				skin.	
[DIET HYLENE TRIAMINE]					

# $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	En vi ronmental Compartment	Value			Remarks	
	•	mg/l	ppm	mg/kg	others	
2,2'-iminodiethylamine	aqua	0,56 mg/l				
111-40-0	(freshwater)					
2,2'-iminodiethylamine	aqua (marine	0,056 mg/l				
111-40-0	water)					
2,2'-iminodiethylamine	aqua	0,32 mg/l				
111-40-0	(intermittent					
	releases)					
2,2'-iminodiethylamine	sediment			1072		
111-40-0	(freshwater)			mg/kg		
2,2'-iminodiethylamine	sediment			107,2		
111-40-0	(marine water)			mg/kg		
2,2'-iminodiethylamine	sewage	6 mg/l				
111-40-0	treatment plant					
	(STP)					
2,2'-iminodiethylamine	Soil			7,97 mg/kg		
111-40-0						
2,2'-iminodiethylamine	Air					no hazard identified
111-40-0						
1,4-Diazabicyclooctane	aqua	0,1 mg/l				
280-57-9	(freshwater)					
1,4-Diazabicyclooctane	aqua (marine	0,01 mg/l				
280-57-9	water)					
1,4-Diazabicyclooctane	aqua	1 mg/l				
280-57-9	(intermittent					
	releases)					
1,4-Diazabicyclooctane	sewage	200 mg/l				
280-57-9	treatment plant					
	(STP)					
1,4-Diazabicyclooctane	sediment			1,3 mg/kg		
280-57-9	(freshwater)					
1,4-Diazabicyclooctane	sediment			0,13 mg/kg		
280-57-9	(marine water)					
1,4-Diazabicyclooctane	Soil			0,19 mg/kg		
280-57-9						

## Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2,2'-iminodiethylamine 111-40-0	Workers	dermal	Long term exposure - systemic effects		11,4 mg/kg	no hazard identified
2,2'-iminodiethylamine 111-40-0	Workers	dermal	Long term exposure - local effects		1,1 mg/kg	no hazard identified
2,2'-iminodiethylamine 111-40-0	Workers	Inhalation	Acute/short term exposure - systemic effects		92,1 mg/m3	no hazard identified
2,2'-iminodiethylamine 111-40-0	Workers	Inhalation	Acute/short term exposure - local effects		2,6 mg/m3	no hazard identified
2,2'-iminodiethylamine 111-40-0	Workers	Inhalation	Long term exposure - systemic effects		15,4 mg/m3	no hazard identified
2,2'-iminodiethylamine 111-40-0	Workers	Inhalation	Long term exposure - local effects		0,87 mg/m3	no hazard identified
2,2'-iminodiethylamine 111-40-0	General population	dermal	Acute/short term exposure - systemic effects		4,88 mg/kg	no hazard identified
2,2'-iminodiethylamine 111-40-0	General population	Inhalation	Acute/short term exposure - systemic effects		27,5 mg/m3	no hazard identified
2,2'-iminodiethylamine 111-40-0	General population	dermal	Long term exposure - systemic effects		4,88 mg/kg	no hazard identified
2,2'-iminodiethylamine 111-40-0	General population	Inhalation	Long term exposure - systemic effects		4,6 mg/m3	no hazard identified
1,4-Diazabicyclooctane 280-57-9	Workers	inhalation	Long term exposure - systemic effects		8,24 mg/m3	
1,4-Diazabicyclooctane 280-57-9	Workers	dermal	Long term exposure - systemic effects		1,4 mg/kg	
1,4-Diazabicyclooctane 280-57-9	General population	inhalation	Long term exposure - systemic effects		1,46 mg/m3	
1,4-Diazabicyclooctane 280-57-9	General population	oral	Long term exposure - systemic effects		0,5 mg/kg	
1,4-Diazabicyclooctane 280-57-9	General population	dermal	Long term exposure - systemic effects		0,5 mg/kg	

## **Biological Exposure Indices:**

None

## 8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

#### Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.1 mm

Perforation time > 480 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance liquid

viscous colourless, transparent

Odor characteristic

Odour threshold No data available / Not applicable

pH Not applicable

Melting point No data available / Not applicable No data available / Not applicable Solidification temperature Initial boiling point No data available / Not applicable Flash point No data available / Not applicable Evaporation rate No data available / Not applicable Flammability No data available / Not applicable No data available / Not applicable Explosive limits No data available / Not applicable Vapour pressure Relative vapour density: No data available / Not applicable

Density 1,14 - 1,2 g/cm<sup>3</sup>

(20 °C (68 °F))

Bulk density

No data available / Not applicable
Solubility

No data available / Not applicable

Solubility (qualitative) Insoluble

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water

Auto-ignition temperature

No data available / Not applicable

No data available / Not applicable

No data available / Not applicable

Viscosity 12.000 - 25.000 mPa.s

(Brookfield; Instrument: RVDV II+; 23 °C

(73.4 °F); speed of rotation: 20 min-1; Spindle

No: 6; Swell time: 24 h)

Viscosity (kinematic)

Explosive properties

No data available / Not applicable

No data available / Not applicable

Oxidising properties

No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

None if used for intended purpose.

## 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

None if used for intended purpose.

#### 10.5. Incompatible materials

None if used properly.

#### 10.6. Hazardous decomposition products

None known.

# **SECTION 11: Toxicological information**

### General toxicological information:

Persons suffering from allergic reactions to amines should avoid contact with the product.

Cross-reactions with other amine compounds are possible.

# 11.1. Information on toxicological effects

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Diethylenetriamine 111-40-0	LD50	1.553 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
1,4-Diazabicyclooctane 280-57-9	LD50	700 mg/kg	rat	not specified

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Diethylenetriamine 111-40-0	LD50	1.045 mg/kg	rabbit	not specified
1,4-Diazabicyclooctane 280-57-9	LD50	> 2.000 mg/kg	rabbit	not specified

## Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Diethylenetriamine	NOEL	0,07 mg/l			rat	OECD Guideline 403 (Acute
111-40-0						Inhalation Toxicity)
Diethylenetriamine	Acute	0,07 mg/l	dust/mist			Expert judgement
111-40-0	toxicity	_				
	estimate					
	(ATE)					

## Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diethylenetriamine 111-40-0	corrosive	15 min	rabbit	BASF Test
1,4-Diazabicyclooctane 280-57-9	irritating	24 h	rabbit	Draize Test

## Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diethylenetriamine 111-40-0	corrosive	30 s	rabbit	not specified
1,4-Diazabicyclooctane 280-57-9	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

## Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Diethylenetriamine	sensitising	Mouse local lymphnode	mouse	OECD Guideline 429 (Skin Sensitisation:
111-40-0		assay (LLNA)		Local Lymph Node Assay)
1,4-Diazabicyclooctane	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
280-57-9		test		

## Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Type of study/	Metabolic	Species	Method
CAS-No.		Route of administration	activation / Exposure time		
Diethylenetriamine 111-40-0	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Diethylenetriamine 111-40-0	negative	in vitro mammalian chromosome aberration test	with and without		Chromosome Aberration Test
1,4-Diazabicyclooctane 280-57-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Diethylenetriamine 111-40-0	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Diethylenetriamine 111-40-0	negative	oral: gavage		mouse	not specified
1,4-Diazabicyclooctane 280-57-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

## Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Diethylenetriamine 111-40-0	not carcinogenic	dermal	lifetime (appr. 587 d) 3 d/w	mouse	male	OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)

## Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
Diethylenetriamine	NOAEL P 100 mg/kg	screening	oral: gavage	rat	OECD Guideline 421
111-40-0					(Reproduction /
	NOAEL F1 30 mg/kg				Developmental Toxicity
					Screening Test)
1,4-Diazabicyclooctane	NOAEL P 100 mg/kg	screening	oral: gavage	rat	OECD Guideline 422
280-57-9					(Combined Repeated Dose
	NOAEL F1 300 mg/kg				Toxicity Study with the
					Reproduction/
					Developmental Toxicity
					Screening Test)

## STOT-single exposure:

No data available.

## STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
Diethylenetriamine	NOAEL 70 - 80 mg/kg	oral: feed	90 d	rat	not specified
111-40-0			daily		
Diethylenetriamine	NOAEL 0,55 mg/l	inhalation:	15 d	rat	not specified
111-40-0		vapour	6 h/d		
1,4-Diazabicyclooctane	NOAEL 100 mg/kg	oral: gavage	40 d	rat	OECD Guideline 422
280-57-9			daily		(Combined Repeated
					Dose Toxicity Study with
					the Reproduction /
					Developmental Toxicity
					Screening Test)

#### Aspiration hazard:

No data available.

## **SECTION 12: Ecological information**

#### General ecological information:

Do not empty into drains, soil or bodies of water.

# 12.1. Toxicity

## **Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	<b>Exposure time</b>	S pe cies	Method
Diethylenetriamine 111-40-0	LC50	430 mg/l	96 h	Poecilia reticulata	EU Method C.1 (Acute Toxicity for Fish)
Diethylenetriamine 111-40-0	NOEC	> 10 mg/l	28 d	Gasterosteus aculeatus	OECD Guideline 210 (fish early lite stage toxicity test)
1,4-Diazabicyclooctane 280-57-9	LC50	> 100 mg/l	96 h	Carassius sp.	OECD Guideline 203 (Fish, Acute Toxicity Test)

## Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylenetriamine	EC50	64,6 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute
111-40-0					Toxicity for Daphnia)
1,4-Diazabicyclooctane	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202
280-57-9					(Daphnia sp. Acute
					Immobilisation Test)

## Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylenetriamine	NOEC	5,6 mg/l	21 d	Daphnia magna	EU Method C.20 (Daphnia
111-40-0					magna Reproduction Test)

## **Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	<b>Exposure time</b>	Species	Method
Diethylenetriamine 111-40-0	EC50	1.164 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diethylenetriamine 111-40-0	NOEC	10 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,4-Diazabicyclooctane 280-57-9	EC10	79 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,4-Diazabicyclooctane 280-57-9	EC50	180 mg/l	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

## Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylenetriamine	NOEC	6 mg/l	3 h	anaerobic bacteria	not specified
111-40-0					_

## 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
1,2-Ethanediamine, N-(2-aminoethyl)-, polymer with oxirane 28063-82-3		aerobic	2 - 5 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Diethylenetriamine 111-40-0	inherently biodegradable	aerobic	83 %	28 d	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
Diethylenetriamine 111-40-0	readily biodegradable	aerobic	87 %	21 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1,4-Diazabicyclooctane 280-57-9		aerobic	7 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

## 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Diethylenetriamine 111-40-0	> 0,3 - < 6,3	42 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: T est for the Degree of Bioconcentration in
					Fish)

## 12.4. Mobility in soil

Hazardous substances	LogPow	Tempe rature	Method
CAS-No.			
Diethylenetriamine	-1,58	20 °C	QSAR (Quantitative Structure Activity Relationship)
111-40-0			
1,4-Diazabicyclooctane	-0,49		not specified
280-57-9			

## 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT/ vPvB
Diethylenetriamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
111-40-0	Bioaccumulative (vPvB) criteria.
1,4-Diazabicyclooctane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
280-57-9	Bioaccumulative(vPvB) criteria.

## 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code 080409

## **SECTION 14: Transport information**

## 14.1. UN number

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA 3334

## 14.2. UN proper shipping name

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA Aviation regulated liquid, n.o.s. (Mercaptan polymer)

#### 14.3. Transport hazard class(es)

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA 9

## 14.4. Packing group

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

IATA III

## 14.5. Environmental hazards

ADR not applicable RID not applicable ADN not applicable IMDG not applicable IATA not applicable

## 14.6. Special precautions for user

ADR not applicable RID not applicable ADN not applicable IMDG not applicable

IATA No dangerous good according to ADR/RID/ADN. Carriage in accordance with

1.1.4.2.1 ADR/RID/ADN.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021):

## EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Not applicable

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H228 Flammable solid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

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