

3471A

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

Page 1 of 13

SDS No.: 173477

V007.0 Revision: 11.07.2017

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Replaces version from: 19.02.2015

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

## 1.1. Product identifier

3471A

#### **Contains:**

Epoxy resin (number average molecular weight  $\leq$  700) 1,3-bis(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]propane Oxirane, mono[(C10-16-alkyloxy)methyl] derivs

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

Intended use: Epoxy adhesive

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

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

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

ua-productsafety.uk@henkel.com

## **1.4.** Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

## **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):

MSDS-No.: 173477 3471A Page 2 of 13

V007.0



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:** P273 Avoid release to the environment.

Prevention P280 Wear protective gloves.

**Precautionary statement:** P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**Response** P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards

None if used properly.

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

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

#### 3.2. Mixtures

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Epoxy resin (number average molecular weight ≤ 700) 25068-38-6	500-033-5 500-033-5 01-2119456619-26	25- 50 %	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411
1,3-bis(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]propane 3126-63-4	221-507-5	2,5- 10 %	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs 68081-84-5	268-358-2	<= 2,5 %	Skin Irrit. 2; Dermal H315 Skin Sens. 1; Dermal H317 Eye Irrit. 2 H319 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

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

MSDS-No.: 173477 3471A Page 3 of 13

V007.0

Skin contact:

Rinse with running water and soap.

Seek medical advice.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Seek medical advice.

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

EYE: Irritation, conjunctivitis.

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

#### 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

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

None known

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

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

### Additional information:

In case of fire, keep containers cool with water spray.

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

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

Avoid skin and eye contact.

### **6.2.** Environmental precautions

Do not let product enter drains.

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

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Wash spillage site thoroughly with soap and water or detergent solution.

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**

MSDS-No.: 173477 3471A Page 4 of 13

V007.0

#### 7.1. Precautions for safe handling

Use only in well-ventilated areas.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

See advice in section 8

## Hygiene measures:

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

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

Store in a cool, well-ventilated place.

Refer to Technical Data Sheet

## 7.3. Specific end use(s)

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

MSDS-No.: 173477 3471A Page 5 of 13

V007.0

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

Name on list	Environmental Compartment	Exposure period	Value			Remarks	
	•		mg/l	ppm	mg/kg	others	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	aqua (freshwater)		0,006 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	aqua (marine water)		0,001 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	aqua (intermittent releases)		0,018 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	sewage treatment plant (STP)		10 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	sediment (freshwater)				0,996 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	sediment (marine water)				0,1 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	soil				0,196 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	oral				11 mg/kg		

MSDS-No.: 173477 3471A Page 6 of 13

V007.0

## **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	Workers	dermal	Acute/short term exposure - systemic effects		8,33 mg/kg	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	Workers	Inhalation	Acute/short term exposure - systemic effects		12,25 mg/m3	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	Workers	dermal	Long term exposure - systemic effects		8,33 mg/kg	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	Workers	Inhalation	Long term exposure - systemic effects		12,25 mg/m3	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	General population	dermal	Acute/short term exposure - systemic effects		3,571 mg/kg	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	General population	dermal	Long term exposure - systemic effects		3,571 mg/kg	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	General population	Inhalation	Acute/short term exposure - systemic effects		0,75 mg/m3	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	General population	Inhalation	Long term exposure - systemic effects		0,75 mg/m3	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	General population	oral	Acute/short term exposure - systemic effects		0,75 mg/kg	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	General population	oral	Long term exposure - systemic effects		0,75 mg/kg	

## **Biological Exposure Indices:**

None

## 8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection: Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area Filter type: A (EN 14387)

MSDS-No.: 173477 3471A Page 7 of 13

V007.0

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear 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 paste grey
Odor mild

Odour threshold No data available / Not applicable

pH No data available / Not applicable
Melting point No data available / Not applicable
Solidification temperature No data available / Not applicable

Initial boiling point > 100 °C (> 212 °F) Flash point > 100 °C (> 212 °F) > 100 °C (> 212 °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 2,3 g/cm<sup>3</sup>

()

Bulk density

No data available / Not applicable
Solubility

No data available / Not applicable

Solubility (qualitative) Not miscible

(Solvent: Water)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

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

MSDS-No.: 173477 3471A Page 8 of 13

V007.0

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

#### 10.1. Reactivity

Reaction with strong oxidants.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

## 10.5. Incompatible materials

See section reactivity.

# 10.6. Hazardous decomposition products

carbon oxides.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Oral toxicity:

May cause irritation to the digestive tract.

#### Inhalative toxicity:

May cause irritation to respiratory system.

#### Skin irritation:

Causes skin irritation.

### Eye irritation:

Causes serious eye irritation.

#### Sensitizing:

May cause an allergic skin reaction.

## Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Epoxy resin (number average molecular weight ≤ 700) 25068-38-6	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 420 (Acute Oral Toxicity)
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs 68081-84-5	LD50	> 5.000 mg/kg	oral		rat	not specified

## Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Epoxy resin (number average molecular weight ≤ 700) 25068-38-6	LD50	> 2.000 mg/kg	dermal		rat	not specified

MSDS-No.: 173477 3471A Page 9 of 13

V007.0

## Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Epoxy resin (number average molecular weight < 700)	moderately irritating	24 h	rabbit	Draize Test
25068-38-6				

## Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Epoxy resin (number average molecular weight ≤ 700) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

# Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Epoxy resin (number average molecular weight ≤ 700)	sensitising	Mouse local lymphnod	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
25068-38-6		e assay (LLNA)		

# Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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)
Epoxy resin (number average molecular weight ≤ 700) 25068-38-6	negative	oral: gavage		mouse	not specified

# Carcinogenicity:

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

MSDS-No.: 173477 3471A Page 10 of 13

V007.0

## Reproductive toxicity:

Hazardous substances	Result / Classification	Species	Exposure	Species	Method
CAS-No.			time		
Epoxy resin (number	NOAEL $P =  >= 50 \text{ mg/kg}$	Two	238 d	rat	OECD Guideline 416 (Two-
average molecular weight	NOAEL F1 = $>= 750 \text{ mg/kg}$	generation			Generation Reproduction
≤ 700)	NOAEL F2 = $>= 750 \text{ mg/kg}$	study			Toxicity Study)
25068-38-6		oral: gavage			

## Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Epoxy resin (number average molecular weight ≤ 700)	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
25068-38-6					

# **SECTION 12: Ecological information**

## General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

## 12.1. Toxicity

## **Ecotoxicity:**

Toxic to aquatic life with long lasting effects.

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

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
C/15-110.	type		Study	time		
Epoxy resin (number average	LC50	1,75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
molecular weight ≤ 700)						203 (Fish, Acute
25068-38-6	F.G.50			40.1	<b>5</b>	Toxicity Test)
Epoxy resin (number average molecular weight ≤ 700)	EC50	1,7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp.
25068-38-6						Acute
23000-30-0						Immobilisation
						Test)
Epoxy resin (number average	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline
molecular weight ≤ 700)						201 (Alga, Growth
25068-38-6	More	4.0 //		<b>50.1</b>		Inhibition Test)
	NOEC	4,2 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline
						201 (Alga, Growth Inhibition Test)
Epoxy resin (number average	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
molecular weight ≤ 700)	1000	, 100 mg 1	Bueteria	0.11	activated stange, mansural	outer guidenne.
25068-38-6						
Epoxy resin (number average	NOEC	0,3 mg/l	chronic	21 d	Daphnia magna	OECD 211
molecular weight ≤ 700)			Daphnia			(Daphnia magna,
25068-38-6	LC50	460 mg/l	Fish	96 h	Leuciscus idus	Reproduction Test) OECD Guideline
1,3-bis(2,3-epoxypropoxy)- 2,2-bis[(2,3-	LCSU	460 mg/1	FISH	96 n	Leuciscus idus	203 (Fish, Acute
epoxypropoxy)methyl]propan						Toxicity Test)
е						Tomenty Test)
3126-63-4						
Oxirane, mono[(C10-16-	LC50	> 1 - 10 mg/l	Fish	96 h		OECD Guideline
alkyloxy)methyl] derivs						203 (Fish, Acute
68081-84-5	EC50	> 1 10 mg/l	Domhnio	48 h	Donhuio magna	Toxicity Test) OECD Guideline
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs	ECJU	> 1 - 10 mg/l	Daphnia	46 11	Daphnia magna	202 (Daphnia sp.
68081-84-5						Acute
33331 013						Immobilisation
						Test)

MSDS-No.: 173477 3471A Page 11 of 13

V007.0

## 12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
0.100		**		
Epoxy resin (number average		aerobic	5 %	OECD Guideline 301 F (Ready
molecular weight ≤ 700)				Biodegradability: Manometric
25068-38-6				Respirometry Test)
1,3-bis(2,3-epoxypropoxy)-		aerobic	47 %	OECD Guideline 302 B (Inherent
2,2-bis[(2,3-				biodegradability: Zahn-
epoxypropoxy)methyl]propan				Wellens/EMPA Test)
e				
3126-63-4				

## 12.3. Bioaccumulative potential / 12.4. Mobility in soil

## Mobility:

Cured adhesives are immobile.

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Epoxy resin (number average	3,242				25 °C	EU Method A.8 (Partition
molecular weight ≤ 700)						Coefficient)
25068-38-6						
1,3-bis(2,3-epoxypropoxy)-	< 2,6					OECD Guideline 107
2,2-bis[(2,3-						(Partition Coefficient (n-
epoxypropoxy)methyl]propan						octanol / water), Shake
e						Flask Method)
3126-63-4						·

#### 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB		
CAS-No.			
Epoxy resin (number average molecular weight	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
≤ 700)	Bioaccumulative (vPvB) criteria.		
25068-38-6			

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Dispose of in accordance with local and national regulations.

Waste code

 $08\ 04\ 09$  waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

MSDS-No.: 173477 3471A Page 12 of 13

V007.0

## **SECTION 14: Transport information**

#### 14.1. UN number

3082
3082
3082
3082
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
ΙΛΤΛ	C

#### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
ΙΔΤΔ	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

MSDS-No.: 173477 3471A Page 13 of 13

V007.0

# **SECTION 15: Regulatory information**

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

VOC content < 3,00 % Combined A/B (2010/75/EC)

#### 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 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.

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.