

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

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LOCTITE ABLESTIK 2035SC known as Ablebond 2035SC (7g) DE

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

1.1. Product identifier

LOCTITE ABLESTIK 2035SC known as Ablebond 2035SC (7g) DE

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

Intended use:

Adhesive

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

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1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

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):



Contains

Tris(2-acryloxyethyl) isocyanurate t-Butylcyclohexylpercarbonate

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

weight≤700) Dibenzoyl peroxide

Dicyclohexyl phthalate

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:	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
Response	P337+P313 If eye irritation persists: Get medical advice/attention.
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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
Isobornyl acrylate 5888-33-5	227-561-6 01-2119957862-25	10- 20 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Sens. 1B H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
Tris(2-acryloxyethyl) isocyanurate 40220-08-4	254-843-6	1-< 3 %	Eye Dam. 1 H318 Skin Sens. 1 H317
t-Butylcyclohexylpercarbonate 15520-11-3	239-557-1 01-2119966122-42	1-< 5 %	Org. Perox. C H242 Skin Sens. 1 H317 Aquatic Chronic 4 H413
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	01-2119456619-26	0,1-< 1 %	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411
Diphenylether 101-84-8	202-981-2	0,1-< 1 %	Aquatic Chronic 3 H412 Eye Irrit. 2 H319 Aquatic Acute 1 H400
Dicyclohexyl phthalate 84-61-7	201-545-9 01-2119978223-34	0,1-< 0,3 %	Repr. 1B H360D Skin Sens. 1 H317 Aquatic Chronic 3 H412 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)
Dibenzoyl peroxide 94-36-0	202-327-6 01-2119511472-50	0,1-< 1 %	Org. Perox. B H241 Eye Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10
Hydroquinone 123-31-9	204-617-8 01-2119524016-51	0,01-< 0,1 %	Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Carc. 2 H351 Muta. 2 H341 Acute Tox. 4; Oral H302 Eye Dam. 1 H318 Skin Sens. 1

H317 M factor (Acute Aquat Tox): 10

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:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

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:

water, carbon dioxide, foam, powder

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 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 contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

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

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.

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

Avoid skin and eye contact. See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

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

Ensure good ventilation/extraction.

Keep container tightly sealed.

Refer to Technical Data Sheet

7.3. Specific end use(s)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 7631-86-9		4	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Diphenyl ether 101-84-8	1	7,1	Exposure limit(s):	I If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Diphenyl ether 101-84-8			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Diphenyl ether 101-84-8 [DIPHENYL ETHER]	1	7	Time Weighted Average (TWA):	Indicative	ECTLV
Diphenyl ether 101-84-8 [DIPHENYL ETHER]	2	14	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Dibenzoyl peroxide 94-36-0			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Dibenzoyl peroxide 94-36-0		5	Exposure limit(s):	1	TRGS 900

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

Name on list	Environmental		Value				Remarks
	Compartment	period	mg/l	nnm	ma/lz~	others	
Isobornyl acrylate	aqua		0.00092	ppm	mg/kg	otners	
5888-33-5	(freshwater)		mg/l				
Isobornyl acrylate	aqua (marine		0,000092				
5888-33-5	water)		mg/l				
Isobornyl acrylate	sewage		2 mg/l				
5888-33-5	treatment plant (STP)						
Isobornyl acrylate	aqua		0.00704				
5888-33-5	(intermittent		mg/l				
	releases)		Ü				
Isobornyl acrylate	sediment				0,145		
5888-33-5	(freshwater)				mg/kg		
Isobornyl acrylate 5888-33-5	sediment (marine water)				0,0145 mg/kg		
Isobornyl acrylate	Soil				0,0285		
5888-33-5					mg/kg		
Isobornyl acrylate	Air						
5888-33-5							
Isobornyl acrylate	Predator						
5888-33-5 Bis(4-tert-butylcyclohexyl)	aqua		0,39 mg/l	-		+	
peroxydicarbonate	(freshwater)		0,59 mg/1				
15520-11-3				<u>L</u>		<u> </u>	
Bis(4-tert-butylcyclohexyl)	aqua (marine		0,039 mg/l				
peroxydicarbonate	water)						
15520-11-3	1		0.20/1				
Bis(4-tert-butylcyclohexyl) peroxydicarbonate	aqua (intermittent		0,39 mg/l				
15520-11-3	releases)						
Bis(4-tert-butylcyclohexyl)	aqua				4685		
peroxydicarbonate	(freshwater)				mg/kg		
15520-11-3							
Bis(4-tert-butylcyclohexyl)	sediment				468,5		
peroxydicarbonate 15520-11-3	(marine water)				mg/kg		
Bis(4-tert-butylcyclohexyl)	Soil				936,8		
peroxydicarbonate					mg/kg		
15520-11-3							
Bis(4-tert-butylcyclohexyl)	sewage		2 mg/l				
peroxydicarbonate 15520-11-3	treatment plant (STP)						
Reaction product: bisphenol-A-	aqua		0,006 mg/l				
(epichlorhydrin); epoxy resin (number	(freshwater)		0,000 1118				
average molecular weight <= 700)							
25068-38-6							
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number	aqua (marine water)		0,001 mg/l				
average molecular weight <= 700)	water)						
25068-38-6							
Reaction product: bisphenol-A-	sewage		10 mg/l				
(epichlorhydrin); epoxy resin (number	treatment plant						
average molecular weight <= 700) 25068-38-6	(STP)						
Reaction product: bisphenol-A-	sediment				0,996		
(epichlorhydrin); epoxy resin (number	(freshwater)				mg/kg		
average molecular weight <= 700)							
25068-38-6	<u> </u>		1	ļ	0.4		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number	sediment				0,1 mg/kg		
average molecular weight <= 700)	(marine water)						
25068-38-6							
Reaction product: bisphenol-A-	Soil				0,196		
(epichlorhydrin); epoxy resin (number					mg/kg		
average molecular weight <= 700)							
25068-38-6 Reaction product: bisphenol-A-	oral		1		11 mg/kg	1	
(epichlorhydrin); epoxy resin (number	Jiai				11 mg/kg		
average molecular weight <= 700)							
25068-38-6				<u> </u>		<u> </u>	
Reaction product: bisphenol-A-	aqua		0,018 mg/l			1	

(epichlorhydrin); epoxy resin (number	(intermittent			
average molecular weight <= 700) 25068-38-6	releases)			
Dicyclohexyl phthalate	aqua	0,00362		
84-61-7	(freshwater)	mg/l		
Dicyclohexyl phthalate	aqua (marine	0,000362		
84-61-7	water)	mg/l		
Dicyclohexyl phthalate	aqua	0,0362		
84-61-7	(intermittent	mg/l		
	releases)			
Dicyclohexyl phthalate	sediment		1,06 mg/kg	
84-61-7	(freshwater)			
Dicyclohexyl phthalate	sediment		0,106	
84-61-7	(marine water)		mg/kg	
Dicyclohexyl phthalate	sewage	10 mg/l		
84-61-7	treatment plant			
	(STP)			
Dicyclohexyl phthalate 84-61-7	Soil		0,21 mg/kg	
Dibenzoyl peroxide	aqua	0,000602		
94-36-0	(freshwater)	mg/l		
Dibenzoyl peroxide	aqua (marine	0,0006		
94-36-0	water)	mg/l		
Dibenzoyl peroxide	aqua	0.000602		
94-36-0	(intermittent	mg/l		
	releases)			
Dibenzoyl peroxide	sewage	0,35 mg/l		
94-36-0	treatment plant			
	(STP)			
Dibenzoyl peroxide	sediment		0,338	
94-36-0	(freshwater)		mg/kg	
Dibenzoyl peroxide	Soil		0,0758	
94-36-0			mg/kg	
Dibenzoyl peroxide	oral		6,67 mg/kg	
94-36-0				
Hydroquinone	aqua	0,00057		
123-31-9	(freshwater)	mg/l		
Hydroquinone	aqua (marine	0,000057		
123-31-9	water)	mg/l	0.0040	
Hydroquinone	sediment		0,0049	
123-31-9	(freshwater)		mg/kg	
Hydroquinone 123-31-9	sediment (marine water)		0,00049	
		0.00124	mg/kg	
Hydroquinone 123-31-9	aqua (intermittent	0,00134		
123-31-9	releases)	mg/l		
Hydroquinone	Soil		0.00064	+
123-31-9	SOII		mg/kg	
Hydroquinone	sewage	0,71 mg/l	IIIg/ Kg	
123-31-9	treatment plant	0,71 Hig/1		
	(STP)			

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Isobornyl acrylate 5888-33-5	Workers	dermal	Long term exposure - systemic effects		1,39 mg/kg	
Isobornyl acrylate 5888-33-5	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	
Isobornyl acrylate 5888-33-5	General population	dermal	Long term exposure - systemic effects		0,83 mg/kg	
Bis(4-tert-butylcyclohexyl) peroxydicarbonate 15520-11-3	Workers	inhalation	Long term exposure - systemic effects		5,87 mg/m3	
Bis(4-tert-butylcyclohexyl) peroxydicarbonate 15520-11-3	Workers	dermal	Long term exposure - systemic effects		16,67 mg/kg	
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	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	
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	
Diphenylether 101-84-8	Workers	inhalation	Long term exposure - systemic effects		59 mg/m3	
Diphenylether 101-84-8	Workers	inhalation	Long term exposure - local effects		7 mg/m3	
Diphenylether 101-84-8	Workers	inhalation	Acute/short term exposure - local effects		14 mg/m3	
Diphenylether 101-84-8	Workers	dermal	Long term exposure - systemic effects		25 mg/kg	
Dicyclohexyl phthalate 84-61-7	Workers	Inhalation	Long term exposure - systemic effects		35,2 mg/m3	
Dicyclohexyl phthalate	Workers	Inhalation	Acute/short term		35,2 mg/m3	

84-61-7			exposure - systemic effects		
Dicyclohexyl phthalate 84-61-7	Workers	dermal	Long term exposure - systemic effects	0,5 mg/kg	
Dicyclohexyl phthalate 84-61-7	Workers	dermal	Acute/short term exposure - systemic effects	0,5 mg/kg	
Dicyclohexyl phthalate 84-61-7	General population	Inhalation	Long term exposure - systemic effects	0,87 mg/m3	
Dicyclohexyl phthalate 84-61-7	General population	Inhalation	Acute/short term exposure - systemic effects	0,87 mg/m3	
Dicyclohexyl phthalate 84-61-7	General population	dermal	Long term exposure - systemic effects	0,25 mg/kg	
Dicyclohexyl phthalate 84-61-7	General population	dermal	Acute/short term exposure - systemic effects	0,25 mg/kg	
Dicyclohexyl phthalate 84-61-7	General population	oral	Acute/short term exposure - systemic effects	0,25 mg/kg	
Dicyclohexyl phthalate 84-61-7	General population	oral	Long term exposure - systemic effects	0,25 mg/kg	
Dibenzoyl peroxide 94-36-0	Workers	Inhalation	Long term exposure - systemic effects	11,75 mg/m3	
Dibenzoyl peroxide 94-36-0	Workers	dermal	Long term exposure - systemic effects	6,6 mg/kg	
Dibenzoyl peroxide 94-36-0	General population	Inhalation	Long term exposure - systemic effects	2,9 mg/m3	
Dibenzoyl peroxide 94-36-0	General population	dermal	Long term exposure - systemic effects	3,3 mg/kg	
Dibenzoyl peroxide 94-36-0	General population	oral	Long term exposure - systemic effects	1,65 mg/kg	
Hydroquinone 123-31-9	Workers	dermal	Long term exposure - systemic effects	3,33 mg/kg	
Hydroquinone 123-31-9	Workers	inhalation	Long term exposure - systemic effects	2,1 mg/m3	
Hydroquinone 123-31-9	General population	dermal	Long term exposure - systemic effects	1,66 mg/kg	
Hydroquinone 123-31-9	General population	inhalation	Long term exposure - systemic effects	1,05 mg/m3	
Hydroquinone 123-31-9	General population	oral	Long term exposure - systemic effects	0,6 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)

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 red
Odor Slight

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 No data available / Not applicable

Flash point > 93 °C (> 199.4 °F)

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable Explosive limits No data available / Not applicable No data available / Not applicable Vapour pressure Relative vapour density: No data available / Not applicable No data available / Not applicable Density No data available / Not applicable Bulk density No data available / Not applicable Solubility

Solubility (qualitative) Slightly soluble

(Solvent: Water)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available / Not applicable
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

Reaction with strong acids. Reacts 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

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			
Isobornyl acrylate 5888-33-5	LD50	4.350 mg/kg	rat	not specified
t- Butylcyclohexylpercarbon ate 15520-11-3	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
Diphenylether 101-84-8	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Dicyclohexyl phthalate 84-61-7	LD50	> 5.000 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
Dibenzoyl peroxide 94-36-0	LD50	> 5.000 mg/kg	rat	not specified
Hydroquinone 123-31-9	LD50	367 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Isobornyl acrylate 5888-33-5	LD50	> 3.000 mg/kg	rabbit	other guideline:
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Dicyclohexyl phthalate 84-61-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Hydroquinone 123-31-9	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

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		
Dibenzoyl peroxide	LC50	> 24,3 mg/l	vapour	4 h	rat	not specified
94-36-0						

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
Isobornyl acrylate 5888-33-5	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	moderately irritating	24 h	rabbit	Draize Test
Diphenylether 101-84-8	not irritating		rabbit	other guideline:
Hydroquinone 123-31-9	not irritating	24 h	rabbit	Weight of evidence

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
Isobornyl acrylate 5888-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Tris(2-acryloxyethyl) isocyanurate 40220-08-4	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
t- Butylcyclohexylpercarbon ate 15520-11-3	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
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)
Dicyclohexyl phthalate 84-61-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 442B (Skin Sensitization)
Dibenzoyl peroxide 94-36-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Hydroquinone 123-31-9	sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Hydroquinone 123-31-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to 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
Isobornyl acrylate 5888-33-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobornyl acrylate 5888-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isobornyl acrylate 5888-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
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)
Hydroquinone 123-31-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydroquinone 123-31-9	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydroquinone 123-31-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	negative	oral: gavage		mouse	not specified
Hydroquinone 123-31-9	positive	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Hydroquinone 123-31-9	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Hydroquinone 123-31-9	positive	intraperitoneal		mouse	equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration 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
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)
Hydroquinone 123-31-9	carcinogenic	oral: gavage	103 w 5 d/w	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Hydroquinone 123-31-9	carcinogenic	oral: gavage	103 w 5 d/w	mouse	female	equivalent or similar 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 CAS-No.	Result / Value	Test type	Route of application	Species	Method
Isobornyl acrylate 5888-33-5	NOAEL P 100 mg/kg NOAEL F1 100 mg/kg		oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the
					Reproduction / Developmental Toxicity Screening Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700)	NOAEL P >= 50 mg/kg NOAEL F1 >= 750 mg/kg NOAEL F2 >= 750 mg/kg	Two generation study	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
25068-38-6 Hydroquinone 123-31-9	NOAEL P 15 mg/kg NOAEL F1 150 mg/kg NOAEL F2 150 mg/kg	Two generation study	oral: gavage	rat	EPA OTS 798.4700 (Reproduction and Fertility Effects)

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 CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Isobornyl acrylate 5888-33-5	NOAEL 100 mg/kg	oral: gavage	once daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	NOAEL 50 mg/kg	oral: gavage	14 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Diphenylether 101-84-8	NOAEL > 301 mg/kg	oral: feed	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Diphenylether 101-84-8	NOAEL > 335 mg/kg	oral: feed	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Hydroquinone 123-31-9	NOAEL 50 mg/kg	oral: gavage	13 w 5 d/w	rat	not specified
Hydroquinone 123-31-9	NOAEL 73,9 mg/kg	dermal	13 w 6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground 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		_		
Isobornyl acrylate 5888-33-5	LC50	0,704 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	LC50	1,75 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Diphenylether 101-84-8	LC50	4,2 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dicyclohexyl phthalate 84-61-7	LC50			Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dibenzoyl peroxide 94-36-0	LC50	0,06 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydroquinone 123-31-9	LC50	0,638 mg/l	96 h	Oncorhynchus mykiss	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 CAS-No.	Value type	Value	Exposure time	Species	Method
Isobornyl acrylate 5888-33-5	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Tris(2-acryloxyethyl) isocyanurate 40220-08-4	EC50	158,3 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
t-Butylcyclohexylpercarbonate 15520-11-3	EC50		48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	EC50	1,7 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Diphenylether 101-84-8	EC50	1,7 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dibenzoyl peroxide 94-36-0	EC50	0,11 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydroquinone 123-31-9	EC50	0,134 mg/l	48 h	Daphnia magna	OECD Guideline 202 (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				
Isobornyl acrylate	NOEC	0,092 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
5888-33-5					magna, Reproduction Test)
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					
Dicyclohexyl phthalate	NOEC	0,181 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia

84-61-7					magna, Reproduction Test)
Dibenzoyl peroxide	EC10	0,001 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
94-36-0					magna, Reproduction Test)
Hydroquinone	NOEC	0,0057 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
123-31-9					magna, Reproduction Test)

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		_	1	
Isobornyl acrylate	NOEC	0,405 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
5888-33-5	EGEO	1.00 //	50.1	D 111 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Growth Inhibition Test)
Isobornyl acrylate	EC50	1,98 mg/l	72 h	Pseudokirchneriella subcapitata	
5888-33-5					Growth Inhibition Test)
Tris(2-acryloxyethyl)	EC50	25,7 mg/l	72 h	Pseudokirchneriella subcapitata	
isocyanurate					Growth Inhibition Test)
40220-08-4	EG10	120 7	50.1		0707 0 1111 201 (11
Tris(2-acryloxyethyl)	EC10	12,9 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
isocyanurate					Growth Inhibition Test)
40220-08-4	ECCO		70.1	D 1 1 1 1	OEGD G : 1 1: 201 (A1
t-Butylcyclohexylpercarbonate	EC50		72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
15520-11-3	NOEC		70.1	D 1 1 1 1	Growth Inhibition Test)
t-Butylcyclohexylpercarbonate	NOEC		72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
15520-11-3	ECCO	11 /1	70.1	G 1 :	Growth Inhibition Test)
reaction product: bisphenol-A-	EC50	> 11 mg/l	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga,
(epichlorhydrin); epoxy resin					Growth Inhibition Test)
(number average molecular					
weight≤700) 25068-38-6					
reaction product: bisphenol-A-	NOEC	4,2 mg/l	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga,
(epichlorhydrin); epoxy resin	NOEC	4,2 mg/1	/ Z II	Scenedesmus capricornutum	Growth Inhibition Test)
(number average molecular					Growth limbition Test)
weight < 700)					
25068-38-6					
Diphenylether	EC50	0,58 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
101-84-8	LCSU	0,50 mg/1	72 11	i seddokireimeriena subcapitata	Growth Inhibition Test)
Diphenylether	NOEC	0,32 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
101-84-8	TTOLC	0,32 mg/1	72 11	i seddokireimeriena subcapitata	Growth Inhibition Test)
Dicyclohexyl phthalate	EC50			Selenastrum capricornutum	OECD Guideline 201 (Alga,
84-61-7	Leso			(new name: Pseudokirchneriella	
0.017				subcapitata)	Growth Immortion Test)
Dibenzoyl peroxide	ErC50	0,071 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
94-36-0	Lico	0,071 mg1	, 2	i seadonii cimericia succupitata	Growth Inhibition Test)
Dibenzoyl peroxide	NOEC	0,02 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
94-36-0		,,, = <i>B</i> -		F	Growth Inhibition Test)
Hydroquinone	EC50	0,335 mg/l	72 h	Selenastrum capricornutum	OECD Guideline 201 (Alga,
123-31-9		.,	/ 	(new name: Pseudokirchneriella	
				subcapitata)	

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- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	IC50	> 100 mg/l	3 h	activated sludge, industrial	other guideline:
Diphenylether 101-84-8	EC50	> 100 mg/l	3 h	predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Dibenzoyl peroxide 94-36-0	EC 50	35 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Hydroquinone 123-31-9	EC 50	0,038 mg/l	30 min		not specified

12.2. Persistence and degradability

The product is not biodegradable.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Isobornyl acrylate 5888-33-5	not readily biodegradable.	aerobic	57 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed
3000-33-3					Vessels (Headspace Test)
Tris(2-acryloxyethyl)	not readily biodegradable.	aerobic	14,5 %	28 d	OECD Guideline 301 F (Ready
isocyanurate 40220-08-4					Biodegradability: Manometric Respirometry Test)
t-Butylcyclohexylpercarbonate	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready
15520-11-3					Biodegradability: CO2 Evolution Test)
reaction product: bisphenol-A-	not readily biodegradable.	aerobic	5 %	28 d	OECD Guideline 301 F (Ready
(epichlorhydrin); epoxy resin (number average molecular					Biodegradability: Manometric Respirometry Test)
weight \(\frac{1}{2} \)					Respirometry Test)
25068-38-6					
Diphenylether	readily biodegradable	aerobic	76 %	20 d	OECD Guideline 301 D (Ready
101-84-8					Biodegradability: Closed Bottle Test)
Dicyclohexyl phthalate	readily biodegradable	aerobic	68,5 %	28 d	not specified
84-61-7	11 11 1 11	1.	71.0/	20.1	OEGD C : 1 1: 201 D /B 1
Dibenzoyl peroxide 94-36-0	readily biodegradable	aerobic	71 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle
71300					Test)
Hydroquinone	readily biodegradable	aerobic	75 - 81 %	30 d	EU Method C.4-E (Determination
123-31-9					of the "Ready"
					BiodegradabilityClosed Bottle Test)
		1		1	1001)

12.3. Bioaccumulative potential

No data available.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Isobornyl acrylate 5888-33-5	37	56 h	24 °C	Danio rerio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Diphenylether 101-84-8	470	7 d		Salmo gairdneri (new name: Oncorhynchus mykiss)	not specified
Dicyclohexyl phthalate 84-61-7	85				OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Dibenzoyl peroxide 94-36-0	66,6			fish	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Isobornyl acrylate 5888-33-5	4,52		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Tris(2-acryloxyethyl) isocyanurate 40220-08-4	1,85	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
t-Butylcyclohexylpercarbonate 15520-11-3	8,34		QSAR (Quantitative Structure Activity Relationship)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	3,242	25 °C	EU Method A.8 (Partition Coefficient)
Diphenylether 101-84-8	4,24		EU Method A.8 (Partition Coefficient)
Dicyclohexyl phthalate 84-61-7	4,82	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Dibenzoyl peroxide 94-36-0	3,2	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Hydroquinone 123-31-9	0,59		EU Method A.8 (Partition Coefficient)

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
Isobornyl acrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
5888-33-5	Bioaccumulative (vPvB) criteria.
t-Butylcyclohexylpercarbonate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
15520-11-3	Bioaccumulative (vPvB) criteria.
reaction product: bisphenol-A-(epichlorhydrin);	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
epoxy resin (number average molecular	Bioaccumulative (vPvB) criteria.
weight≤700)	
25068-38-6	
Dicyclohexyl phthalate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
84-61-7	Bioaccumulative (vPvB) criteria.
Dibenzoyl peroxide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
94-36-0	Bioaccumulative (vPvB) criteria.
Hydroquinone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
123-31-9	Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

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.

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.

SECTION 14: Transport information

14.1. UN number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

14.2. UN proper shipping name

A DD		SUBSTANCE, LIOUID	NI O O /I 1 1

acrylate)

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

acrylate)

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

acrylate)

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

acrylate)

IATA Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate)

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

VOC content < 3 % (2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK = 3, highly water endangering mixture. Classification according to the

mixture rules in German AwSV regulation annex 1, number 5.2 from 18. April

2017.

Storage class according to TRGS 510: 10

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:

H241 Heating may cause a fire or explosion.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H360D May damage the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Further information:

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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.