

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

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SDS No.: 406385

V001.0 Revision: 06.11.2017

printing date: 17.10.2019 Replaces version from: -

LOCTITE ABLESTIK 8302 known as Ablebond 8302 (35g)

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

#### 1.1. Product identifier

LOCTITE ABLESTIK 8302 known as Ablebond 8302 (35g)

#### **Contains:**

Dicyclopentyldimethylene diacrylate

2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane

1,6-Hexanediol diacrylate

#### 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

Phone: +49 211 797 0 Fax-no.: +49 211 798 2009

ua-productsafety.de@henkel.com

# **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 sensitizer Category 1

H317 May cause an allergic skin reaction.

Germ cell mutagenicity Category 2

H341 Suspected of causing genetic defects.

Acute hazards to the aquatic environment Category 1

H400 Very toxic to aquatic life.

Chronic hazards to the aquatic environment Category 1

H410 Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

#### Label elements (CLP):

#### Hazard pictogram:



Signal word: Warning

**Hazard statement:** H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement:** P273 Avoid release to the environment.

**Prevention** P280 Wear protective gloves/protective clothing.

Precautionary statement:

Response

P333+P313 If skin irritation or rash occurs: 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

## General chemical description:

Adhesive

#### Base substances of preparation:

Acrylate

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Silver >= 99,9 % Ag in powder	231-131-3	50- 100 %	Aquatic Acute 1
(>100nm<1mm)	01-2119555669-21		H400
7440-22-4			Aquatic Chronic 1
			H410
			M factor (Acute Aquat Tox): 10 M factor
			(Chron Aquat Tox): 10
<ol><li>Propenoic acid, dodecyl ester</li></ol>	218-463-4	1- < 5 %	STOT SE 3
2156-97-0			H335
			Aquatic Chronic 2
			H411
			Eye Irrit. 2
			H319
			Skin Irrit. 2
			H315
Dicyclopentyldimethylene diacrylate	255-901-3	1-< 5 %	Skin Sens. 1
42594-17-2	01-2120051112-76		H317
			Aquatic Chronic 2
			H411
2,2'-[[2-(oxiranylmethoxy)-1,3-	236-951-5	1- < 3 %	Skin Irrit. 2; Dermal
phenylene]bis(methylene)]bisoxirane			H315
13561-08-5			Skin Sens. 1; Dermal
			H317
			Eye Irrit. 2
			H319
			Muta. 2
			H341
1,6-Hexanediol diacrylate	235-921-9	0,1-< 1 %	Eye Irrit. 2
13048-33-4	01-2119484737-22		H319
			Skin Sens. 1A
			H317
			Skin Irrit. 2
			H315
			Aquatic Chronic 3
			H412

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

Prolonged or repeated skin contact with silver and its salts may cause a blue-gray discoloration of the skin and mucous membranes that is irreversible (Argyria).

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

Prolonged or repeated contact may cause skin 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:

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

#### 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.

Remove sources of ignition.

#### 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.

#### 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

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

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Silver 7440-22-4 [SILVER, METALLIC]		0,1	Time Weighted Average (TWA):	Indicative	ECTLV
Silver 7440-22-4			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Silver 7440-22-4		0,1	Exposure limit(s):	8	TRGS 900

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

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Silver >= 99,9 % Ag as powder	aqua		0,00004				
(>100nm<1mm) classified for environment	(freshwater)		mg/l				
7440-22-4							
Silver >= 99,9 % Ag as powder	aqua (marine		0,00086				
(>100nm<1mm) classified for environment	water)		mg/l				
7440-22-4							
Silver >= 99,9 % Ag as powder	sewage		0,025 mg/l				
(>100nm<1mm) classified for environment	treatment plant						
7440-22-4	(STP)						
Silver >= 99,9 % Ag as powder	sediment				438,13		
(>100nm<1mm) classified for environment	(freshwater)				mg/kg		
7440-22-4							
Silver >= 99,9 % Ag as powder	sediment				438,13		
(>100nm<1mm) classified for environment	(marine water)				mg/kg		
7440-22-4							
Silver >= 99,9 % Ag as powder	Air						
(>100nm<1mm) classified for environment							
7440-22-4							
Silver >= 99,9 % Ag as powder	soil				1,41 mg/kg		
(>100nm<1mm) classified for environment							
7440-22-4							
(Octahydro-4,7-methano-1H-	aqua		0,0016				
indenediyl)bis(methylene) diacrylate	(freshwater)		mg/l				
42594-17-2							
(Octahydro-4,7-methano-1H-	aqua (marine		0,00016				
indenediyl)bis(methylene) diacrylate	water)		mg/l				
42594-17-2							
(Octahydro-4,7-methano-1H-	sediment				0,6576		
indenediyl)bis(methylene) diacrylate	(freshwater)				mg/kg		
42594-17-2							
(Octahydro-4,7-methano-1H-	sediment				0,0658		
indenediyl)bis(methylene) diacrylate	(marine water)				mg/kg		
42594-17-2			1				
(Octahydro-4,7-methano-1H-	soil				0,1306		
indenediyl)bis(methylene) diacrylate					mg/kg		
42594-17-2							
(Octahydro-4,7-methano-1H-	sewage		10 mg/l				
indenediyl)bis(methylene) diacrylate	treatment plant						
42594-17-2	(STP)		0.015 7				
(Octahydro-4,7-methano-1H-	aqua		0,016 mg/l				
indenediyl)bis(methylene) diacrylate	(intermittent						
42594-17-2	releases)		0.0017				
Hexamethylene diacrylate	aqua		0,0015				
13048-33-4	(freshwater)		mg/l				
Hexamethylene diacrylate	aqua (marine		0,00015				
13048-33-4	water)		mg/l		0.00205		
Hexamethylene diacrylate	soil				0,00397		
13048-33-4			2.7. "	ļ	mg/kg		
Hexamethylene diacrylate	sewage		2,7 mg/l				
13048-33-4	treatment plant						
Hayamathyilana diaamil-t-	(STP) sediment	-	+		0,0243	<b> </b>	
Hexamethylene diacrylate							
13048-33-4	(freshwater)	-	+		mg/kg	<b> </b>	
Hexamethylene diacrylate	sediment (marine water)				0,00243		
13048-33-4	(marme water)	1	1	1	mg/kg	1	

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	Workers	inhalation	Long term exposure - systemic effects		0,1 mg/m3	
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	General population	inhalation	Long term exposure - systemic effects		0,04 mg/m3	
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	General population	oral	Long term exposure - systemic effects		1,2 mg/kg	
Hexamethylene diacrylate 13048-33-4	Workers	dermal	Long term exposure - systemic effects		2,77 mg/kg	
Hexamethylene diacrylate 13048-33-4	Workers	Inhalation	Long term exposure - systemic effects		24,48 mg/m3	
Hexamethylene diacrylate 13048-33-4	General population	dermal	Long term exposure - systemic effects		1,66 mg/kg	
Hexamethylene diacrylate 13048-33-4	General population	Inhalation	Long term exposure - systemic effects		7,24 mg/m3	
Hexamethylene diacrylate 13048-33-4	General population	oral	Long term exposure - systemic effects		2,08 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.

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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

silver

Odor Slight

Odour threshold No data available / Not applicable

рΗ 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  $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$ 

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable No data available / Not applicable Explosive limits Vapour pressure No data available / Not applicable No data available / Not applicable Relative vapour density: Density No data available / Not applicable Bulk density No data available / Not applicable Solubility No data available / Not applicable Solubility (qualitative) No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable No data available / Not applicable Auto-ignition temperature Decomposition temperature No data available / Not applicable Viscosity No data available / Not applicable No data available / Not applicable Viscosity (kinematic) No data available / Not applicable Explosive properties Oxidising properties No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Strong oxidizing agents.

Strong bases.

Acids.

Reducing agents.

## 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

#### 10.5. Incompatible materials

See section reactivity.

#### 10.6. Hazardous decomposition products

carbon oxides. Hydrocarbons

nitrogen oxides Rapid polymerisation may generate excessive heat and pressure.

# **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.

#### **Dermal toxicity:**

Prolonged or repeated skin contact with silver and its salts may cause a blue-gray discoloration of the skin and mucous membranes that is irreversible (Argyria).

#### Skin irritation:

Prolonged or repeated contact may cause skin irritation.

#### Eye irritation:

Prolonged or repeated contact may cause eye irritation.

## **Sensitizing:**

May cause an allergic skin reaction.

# Mutagenicity:

Suspected of causing genetic defects

#### Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Silver >= 99,9 % Ag in	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
powder (>100nm<1mm)						Oral Toxicity)
7440-22-4						-
2-Propenoic acid, dodecyl	LD50	> 5.000 mg/kg	oral		rat	
ester						
2156-97-0						
1,6-Hexanediol diacrylate	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
13048-33-4						Oral Toxicity)

#### Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		

# Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Silver $\geq$ 99,9 % Ag in	LD50	> 2.000  mg/kg	dermal		rat	OECD Guideline 402 (Acute
powder (>100nm<1mm)						Dermal Toxicity)
7440-22-4						-
1,6-Hexanediol diacrylate	LD50	3.650 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute
13048-33-4		21000 1119 119				Dermal Toxicity)
13040 33 4	Į	I	l	ļ		Definal Toxicity)

# Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Dicyclopentyldimethylene	not irritating		In vitro	OECD Guideline 439 (In
diacrylate				Vitro Skin Irritation:
42594-17-2				Reconstructed Human
				Epidermis (RHE) Test
				Method)
1,6-Hexanediol diacrylate	irritating	4 h	rabbit	OECD Guideline 404 (Acute
13048-33-4				Dermal Irritation / Corrosion)

# Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Dicyclopentyldimethylene	not irritating		In vitro	OECD Guideline 437 (BCOP)
diacrylate				
42594-17-2				
1,6-Hexanediol diacrylate	irritating		rabbit	OECD Guideline 405 (Acute
13048-33-4				Eye Irritation / Corrosion)

# Respiratory or skin sensitization:

Hazardous components	Result	Test type	Species	Method
CAS-No.				
Dicyclopentyldimethylene diacrylate 42594-17-2	sensitising	Freund's complete adjuvant test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,6-Hexanediol diacrylate 13048-33-4	sensitising	Guinea pig maximisat ion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

# Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Dicyclopentyldimethylene diacrylate 42594-17-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,6-Hexanediol diacrylate 13048-33-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,6-Hexanediol diacrylate 13048-33-4	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

# Reproductive toxicity:

Hazardous substances	Result / Classification	Species	Exposure	Species	Method
CAS-No.			time		
1,6-Hexanediol diacrylate	NOAEL $P = 250 \text{ mg/kg}$	screening	28 - 52 d	rat	OECD Guideline 422
13048-33-4		oral: gavage			(Combined Repeated Dose
					Toxicity Study with the
					Reproduction /
					Developmental Toxicity
					Screening Test)

#### Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Dicyclopentyldimethylene diacrylate 42594-17-2	NOAEL=1.000 mg/kg	oral: gavage		rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
1,6-Hexanediol diacrylate 13048-33-4	NOAEL=250 mg/kg	oral: gavage	28 - 52 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

# **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:**

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

Very toxic to aquatic life with long lasting effects.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	LC50	0,0012 mg/l	Fish	96 h	Pimephales promelas	other guideline:
	EC10	0,00019 mg/l	Fish	217 d	Salmo trutta	OECD Guideline 210 (fish early lite stage toxicity test)
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	EC50	0,00022 mg/l	Daphnia	48 h	Daphnia magna	other guideline:
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	EC10	0,00016 mg/l	Algae	15 d	other:	other guideline:
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	NOEC	0,00032 mg/l	chronic Daphnia	21 d	Daphnia magna	EPA OPPTS 850.1300 (Daphnid Chronic Toxicity Test)
2-Propenoic acid, dodecyl ester 2156-97-0	LC50	460 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Propenoic acid, dodecyl ester 2156-97-0	EC50	2,62 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
2-Propenoic acid, dodecyl ester 2156-97-0	EC50	40 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Propenoic acid, dodecyl ester 2156-97-0	EC 50	> 10.000 mg/l	Bacteria	30 min	1 /	not specified
Dicyclopentyldimethylene diacrylate 42594-17-2	EC50	2,36 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dicyclopentyldimethylene diacrylate 42594-17-2	EC50	1,6 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	0,64 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	
1,6-Hexanediol diacrylate 13048-33-4	EC50	1,5 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
	NOEC	0,5 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09

# 12.2. Persistence and degradability

# Persistence and Biodegradability: The product is not biodegradable.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Dicyclopentyldimethylene diacrylate 42594-17-2	not readily biodegradable.	aerobic	28 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1,6-Hexanediol diacrylate 13048-33-4			> 70 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
	readily biodegradable	aerobic	69 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

## Mobility:

Cured adhesives are immobile.

## **Bioaccumulative potential:**

No data available.

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Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Silver >= 99,9 % Ag in		70	42 d	Cyprinus carpio	20 °C	other guideline:
powder (>100nm<1mm)						_
7440-22-4						
Dicyclopentyldimethylene	4,6					OECD Guideline 117
diacrylate						(Partition Coefficient (n-
42594-17-2						octanol / water), HPLC
						Method)
1,6-Hexanediol diacrylate	2,81				25 °C	OECD Guideline 107
13048-33-4						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

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

Hazardous components	PBT/vPvB		
CAS-No.			
Silver >= 99,9 % Ag in powder (>100nm<1mm	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
	Bioaccumulative (vPvB) criteria.		
7440-22-4			
1,6-Hexanediol diacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
13048-33-4	Bioaccumulative (vPvB) criteria.		

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

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

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.

#### 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

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
IATA	Environmentally hazardous substance, liquid, n.o.s. (Silver)

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

ADR	9
RID	ç
ADN	ç
IMDG	ç
IATA	Ç

# 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**

MSDS-No.: 406385 LOCTIT

V001.0

VOC content (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 product. Classification according to the

mixture rules in German VwVwS regulation annex 4 from 27 July 2005.

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

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2017.

< 3 %

Storage class according to TRGS 510: 12

# **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.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

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.

#### **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.