

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

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SDS No.: 255603

V004.0 Revision: 18.10.2017

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Replaces version from: 08.10.2014

LOCTITE ABLESTIK QMI9507-2C2 known as 9507-2C2 STM 10CC EFD 41.g  $\,$ 

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

#### 1.1. Product identifier

LOCTITE ABLESTIK QMI9507-2C2 known as 9507-2C2 STM 10CC EFD 41.g

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

Intended use:

Die attach 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):**

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:	
mazaru pictogram:	av
	¥2

Signal word: Warning

**Hazard statement:** H410 Very toxic to aquatic life with long lasting effects.

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**Supplemental information** Contains Epoxycyclohexylethyltrimethoxysilane. May produce an allergic reaction.

Precautionary statement:

P273 Avoid release to the environment.

Prevention

### 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:

Conductive adhesive

### Base substances of preparation:

Bismaleimide resin Methacrylates Filler

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

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
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
Isobornyl methacrylate	231-403-1	2,5-< 25 %	Aquatic Chronic 3
7534-94-3	01-2119474895-20		H412
	01-2119886505-27		
Epoxycyclohexylethyltrimethoxysilane	222-217-1	0,1-< 1 %	Skin Sens. 1B
3388-04-3			H317
			Muta. 2
			H341
			Carc. 2
			H351
			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:

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

Skin contact

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

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.

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### 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).

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:

Foam, extinguishing powder, carbon dioxide.

Water spray jet

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

High pressure waterjet

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

Danger of decomposition if exposed to heat.

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.

Ensure adequate ventilation.

Wear protective equipment.

#### 6.2. Environmental precautions

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

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

Remove mechanically.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

For small spills wipe up with paper towel and place in 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

Extract when the product is heated.

Avoid naked flames, sparking and sources of ignition.

Avoid skin and eye contact.

See advice in section 8

#### Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Good industrial hygiene practices should be observed.

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# 7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Protect against contamination.

Store in a cool, dry place.

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Store protected from light.

Must be stored in a room with spill collection facilities.

Keep away from heat and direct sunlight.

Refer to Technical Data Sheet

# 7.3. Specific end use(s)

Die attach adhesive

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

# 8.1. Control parameters

### **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	V 1	Short term exposure limit category / Remarks	Regulatory list
Silver 7440-22-4 [SILVER (METALLIC)]		0,1	Time Weighted Average (TWA):		EH40 WEL
Silver 7440-22-4 [SILVER, METALLIC]		0,1	Time Weighted Average (TWA):	Indicative	ECTLV

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit	Regulatory list
				category / Remarks	
Silver		0,1	Time Weighted Average	Indicative OELV	IR_OEL
7440-22-4			(TWA):		
[SILVER (METALLIC)]					
Silver		0,1	Time Weighted Average	Indicative	ECTLV
7440-22-4			(TWA):		
[SILVER, METALLIC]					

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# **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 (>100nm<1mm) classified for environment 7440-22-4	aqua (freshwater)		0,00004 mg/l				
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	aqua (marine water)		0,00086 mg/l				
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	sewage treatment plant (STP)		0,025 mg/l				
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	sediment (freshwater)				438,13 mg/kg		
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	sediment (marine water)				438,13 mg/kg		
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	Air						
Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4	soil				1,41 mg/kg		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	aqua (freshwater)		4,66 µg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	soil				0,118 mg/kg		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	sewage treatment plant (STP)		2,45 mg/l				
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate 7534-94-3	sediment (freshwater)				0,604 mg/kg		

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

Name on list	Application	Route of	Health Effect	Exposure	Value	Remarks
	Area	Exposure		Time		
Silver >= 99,9 % Ag as powder	Workers	inhalation	Long term		0,1 mg/m3	
(>100nm<1mm) classified for environment			exposure -			
7440-22-4			systemic effects			
Silver >= 99,9 % Ag as powder	General	inhalation	Long term		0,04 mg/m3	
(>100nm<1mm) classified for environment	population		exposure -			
7440-22-4			systemic effects			
Silver >= 99,9 % Ag as powder	General	oral	Long term		1,2 mg/kg	
(>100nm<1mm) classified for environment	population		exposure -			
7440-22-4			systemic effects			
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	Workers	dermal	Long term		1,04 mg/kg	
methacrylate			exposure -			
7534-94-3			systemic effects			
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	General	dermal	Long term		0,625 mg/kg	
methacrylate	population		exposure -			
7534-94-3			systemic effects			

# **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

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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:

Goggles which can be tightly sealed.

protective shield

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

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 liquid

pasty, liquid silver mild

Odor

Odour threshold No data available / Not applicable

pН Not applicable

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

Initial boiling point Polymerization may occur at elevated temperature.

Flash point 96 °C (204.8 °F)

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

Density 4,15 g/cm3

(20 °C (68 °F))

Bulk density No data available / Not applicable Solubility No data available / Not applicable Not miscible or difficult to mix Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)

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

### 9.2. Other information

No data available / Not applicable

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

#### 10.1. Reactivity

Oxidizing agents, acids, halogens and halogenated compounds.

Free radical initiators.

Peroxides.

Forms an explosive mixture with nitric acid

### 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.

Danger of decomposition if exposed to heat.

Exposure to light.

Heat, flames, sparks and other sources of ignition.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

Hydrocarbons

Metallic oxides

Polymerization may occur at elevated temperature or in the presence of incompatible materials.

At higher temperature carbon oxides and nitrogen oxides may be generated.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

See section 5.

# **SECTION 11: Toxicological information**

### General toxicological information:

Prolonged or repeated contact may cause skin irritation.

# 11.1. Information on toxicological effects

### Acute oral toxicity:

May cause irritation to the digestive tract.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Isobornyl methacrylate 7534-94-3	LD50	3.160 mg/kg	rat	not specified
Epoxycyclohexylethyltri methoxysilane 3388-04-3	LD50	13.000 mg/kg	rat	

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# Acute 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).

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Isobornyl methacrylate 7534-94-3	LD50	> 3.000 mg/kg	rabbit	not specified
Epoxycyclohexylethyltri methoxysilane 3388-04-3	LD50	6.700 mg/kg	rabbit	

### Acute inhalative toxicity:

No data available.

### Skin corrosion/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Isobornyl methacrylate 7534-94-3	mildly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

### Serious eye damage/irritation:

No data available.

# 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 methacrylate 7534-94-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Epoxycyclohexylethyltri methoxysilane 3388-04-3	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

### Germ cell mutagenicity:

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

Hazardous substances	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
Silver >= 99,9 % Ag in	negative	in vitro mammalian	with and without		OECD Guideline 487 (In vitro
powder (>100nm<1mm)		cell micronucleus			Mammalian Cell
7440-22-4		test			Micronucleus Test)
Isobornyl methacrylate	negative	bacterial reverse	with and without		OECD Guideline 471
7534-94-3		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Isobornyl methacrylate	negative		with and without		OECD Guideline 476 (In vitro
7534-94-3					Mammalian Cell Gene
					Mutation Test)
Isobornyl methacrylate	negative	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
7534-94-3		chromosome			Mammalian Chromosome
		aberration test			Aberration Test)

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# Carcinogenicity

No data available.

# Reproductive toxicity:

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

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
Isobornyl methacrylate	NOAEL P 25 mg/kg		oral: gavage	rat	OECD Guideline 421
7534-94-3					(Reproduction /
	NOAEL F1 500 mg/kg				Developmental Toxicity
					Screening Test)

# STOT-single exposure:

No data available.

# STOT-repeated exposure::

No data available.

# Aspiration hazard:

No data available.

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# **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				
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	LC50	0,0012 mg/l	96 h	Pimephales promelas	other guideline:
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	EC10	0,00019 mg/l	217 d		OECD Guideline 210 (fish early lite stage toxicity test)
Isobornyl methacrylate 7534-94-3	LC50	1,79 mg/l	96 h		OECD Guideline 203 (Fish, Acute Toxicity Test)
Epoxycyclohexylethyltrimetho xysilane 3388-04-3	LC50	42,3 mg/l	96 h	31 1	OECD Guideline 203 (Fish, Acute Toxicity Test)

### Toxicity (Daphnia):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Silver >= 99,9 % Ag in	EC50	0,00022 mg/l	48 h	Daphnia magna	other guideline:
powder (>100nm<1mm)					
7440-22-4					
Isobornyl methacrylate	EC50	1,1 mg/l	48 h	Daphnia magna	OECD Guideline 202
7534-94-3					(Daphnia sp. Acute
					Immobilisation Test)
Epoxycyclohexylethyltrimetho	EC50	58 mg/l	48 h	Daphnia magna	OECD Guideline 202
xysilane					(Daphnia sp. Acute
3388-04-3					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				
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	NOEC	0,00032 mg/l	21 d	- T	EPA OPPTS 850.1300 (Daphnid Chronic Toxicity Test)
Isobornyl methacrylate 7534-94-3	NOEC	0,233 mg/l	21 d	1 0	OECD 211 (Daphnia magna, Reproduction Test)
Epoxycyclohexylethyltrimetho xysilane 3388-04-3	NOEC	16 mg/l	21 d	1 0	OECD 211 (Daphnia magna, Reproduction Test)

# **Toxicity (Algae):**

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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				
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	EC10	0,00016 mg/l	15 d	other:	other guideline:
Isobornyl methacrylate 7534-94-3	EC50	2,66 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isobornyl methacrylate 7534-94-3	NOEC	0,254 mg/l	96 h	*	OECD Guideline 201 (Alga, Growth Inhibition Test)
Epoxycyclohexylethyltrimetho xysilane 3388-04-3	NOEC	6 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Epoxycyclohexylethyltrimetho xysilane 3388-04-3	EC50	90 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

# Toxicity to microorganisms

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Epoxycyclohexylethyltrimetho	EC 50	> 100 mg/l	30 min		OECD Guideline 209
xysilane					(Activated Sludge,
3388-04-3					Respiration Inhibition Test)

# 12.2. Persistence and degradability

The product is not biodegradable.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Isobornyl methacrylate	readily biodegradable	aerobic	70 %	28 d	OECD Guideline 310 (Ready
7534-94-3					BiodegradabilityCO2 in Sealed
					Vessels (Headspace Test)
Epoxycyclohexylethyltrimetho		aerobic	28 %	28 d	OECD Guideline 301 D (Ready
xysilane					Biodegradability: Closed Bottle
3388-04-3					Test)

# 12.3. Bioaccumulative potential

No data available.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4	70	42 d	20 °C	Cyprinus carpio	other guideline:
Isobornyl methacrylate 7534-94-3	37	56 day	24 °C	Danio rerio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

# 12.4. Mobility in soil

Cured adhesives are immobile.

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Hazardous substances CAS-No.	LogPow	Temperature	Method
Isobornyl methacrylate 7534-94-3	5,09		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Epoxycyclohexylethyltrimetho xysilane 3388-04-3	4,1	23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

### 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
Silver $\geq$ 99,9 % Ag in powder ( $\geq$ 100nm $\leq$ 1mm	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
	Bioaccumulative (vPvB) criteria.
7440-22-4	
Isobornyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7534-94-3	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:

Disposal must be made according to official regulations.

Use packages for recycling only when totally empty.

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.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### Waste code

06 04 05 - wastes containing other heavy metals

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.

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# **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	9
ADN	9
IMDG	ç
ΙΔΤΔ	C

# 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 UN 1845, carbon dioxide, solid, as a coolant (does not apply for Germany, Sweden,

France, Belgium, UK)

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

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## **SECTION 15: Regulatory information**

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

VOC content < 5 % (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:

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very 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.