

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

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SDS No.: 520590

V002.0 Revision: 18.04.2016

printing date: 30.04.2018

Replaces version from: 17.06.2015

LOCTITE GC 10 SAC305T3 885V 52K

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

1.1. Product identifier

LOCTITE GC 10 SAC305T3 885V 52K

Contains:

Rosin

Dodecane-1-thiol

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

Intended use: Solder Paste

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 +44 1442 278071 Fax-no.:

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizer

Category 1 H317 May cause an allergic skin reaction.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word: Warning

Hazard statement: H317 May cause an allergic skin reaction.

Precautionary statement: P280 Wear protective gloves. **Prevention** P261 Avoid breathing fume.

Precautionary statement:

Response

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

2.3. Other hazards

Avoid breathing fumes given out during soldering.

Flux fumes may irritate the nose, throat and lungs and may after prolonged/repeated exposure give an allergic reaction (asthma). After handling solder wash hands with soap and water before eating, drinking or smoking.

Keep out of reach of children.

This product contains modified rosin.

Self classification: product testing according to Classification, Labelling and Packaging Regulation EC/1272/2008, Annex 1, Part 4

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
Tin 7440-31-5	231-141-8 01-2119486474-28	50- 100 %	
Modified rosin 144413-22-9	434-230-1, 434- 230-1 01-0000018038-71	1-< 3 %	Aquatic Chronic 4 H413
Silver >= 99,9 % Ag in powder (< 1 mm) 7440-22-4	231-131-3 01-2119555669-21	1-< 3%	Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 1.000 M factor (Chron Aquat Tox): 100
Rosin 8050-09-7	232-475-7 01-2119480418-32	1-< 3 %	Skin Sens. 1 H317
2-(2-(2-Butoxyethoxy)ethoxy)ethanol 143-22-6	205-592-6 01-2119475107-38	1-< 3 %	Eye Dam. 1 H318
Copper 7440-50-8	231-159-6 01-2119480154-42	0,25-< 2,5 %	Aquatic Acute 1 H400 Aquatic Chronic 3 H412
Dodecane-1-thiol 112-55-0	203-984-1 01-2119491318-31	0,1-< 0,25 %	Skin Corr. 1C H314 Aquatic Chronic 4 H413 Skin Sens. 1A H317

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.

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

SKIN: Rash, Urticaria.

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:

Carbon dioxide, foam, powder

Fine water spray

Extinguishing media which must not be used for safety reasons:

Do not use water on fires where molten metal is present.

${\bf 5.2.}$ Special hazards arising from the substance or mixture

High temperatures may produce heavy metal dust, fumes or vapours.

High temperatures may produce heavy metal dust, fumes or vapours.

The flux medium will give rise to irritating fumes.

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

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until 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

Extraction is necessary to remove fumes evolved during reflow.

When using do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

Avoid breathing fumes given out during soldering.

Hygiene measures:

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

After handling solder wash hands with soap and water before eating, drinking or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store only in the original container.

Refer to Technical Data Sheet

7.3. Specific end use(s)

Solder Paste

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	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
Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME]		0,05	Time Weighted Average (TWA):		EH40 WEL
Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME]		0,15	Short Term Exposure Limit (STEL):		EH40 WEL
Copper 7440-50-8 [COPPER, FUME]		0,2	Time Weighted Average (TWA):		EH40 WEL
Copper 7440-50-8 [COPPER, INHALABLE DUSTS AND MISTS (AS CU)]		1	Time Weighted Average (TWA):		EH40 WEL
Copper 7440-50-8 [COPPER, INHALABLE DUSTS AND MISTS (AS CU)]		2	Short Term Exposure Limit (STEL):		EH40 WEL

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Tin 7440-31-5 [TIN, METAL (AS SN)]		2	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Tin 7440-31-5 [TIN (INORGANIC COMPOUNDS AS SN)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Silver 7440-22-4 SILVER (METALLIC)]		0,1	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Silver 7440-22-4 [SILVER, METALLIC]		0,1	Time Weighted Average (TWA):	Indicative	ECTLV
Rosin 8050-09-7 (ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)]		0,05	Time Weighted Average (TWA):		IR_OEL
Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)]		0,15	Short Term Exposure Limit (STEL):		IR_OEL
Copper 7440-50-8 [COPPER (AS CU), DUSTS AND MISTS]		1	Time Weighted Average (TWA):		IR_OEL
Copper 7440-50-8 [COPPER (AS CU), FUME]		0,2	Time Weighted Average (TWA):		IR_OEL
Copper 7440-50-8		2	Short Term Exposure Limit (STEL):		IR_OEL

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[COPPER (AS CU), DUSTS AND MISTS]			
Dodecane-1-thiol	0,1	Time Weighted Average	IR_OEL
112-55-0		(TWA):	
[DODECYL MERCAPTAN]			

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure adequate ventilation, especially in confined areas.

Extraction is necessary to remove fumes evolved during reflow.

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Respiratory protection:

Use only in well-ventilated areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

Suitable respiratory protection: 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 solid, paste

Gray

Odor mild

Odour threshold No data available / Not applicable

рH No data available / Not applicable Initial boiling point No data available / Not applicable > 131 °C (> 267.8 °F)Estimated Flash point Decomposition temperature No data available / Not applicable

Vapour pressure 0,83 Pa

(50 °C (122 °F))

No data available / Not applicable

Bulk density 4,3 g/ml Viscosity > 0 mPa.s

()

Density

Viscosity (kinematic)

Explosive properties

No data available / Not applicable

No data available / Not applicable

Solubility (qualitative) Insoluble

(Solvent: Water)

Solidification temperature No data available / Not applicable

Melting point 217 °C (422.6 °F)

Flammability

No data available / Not applicable
Auto-ignition temperature

No data available / Not applicable
Explosive limits

No data available / Not applicable
Partition coefficient: n-octanol/water

Evaporation rate

No data available / Not applicable
No data available / Not applicable
Vapor density

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

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

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

Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

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

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.

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.

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Eye irritation:

Solder pastes may be abrasive to the eyes and the fumes are irritating.

Sensitizing:

May cause an allergic skin reaction.

Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Modified rosin	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 423 (Acute
144413-22-9						Oral toxicity)
Silver >= 99,9 % Ag in	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
powder (< 1 mm)						Oral Toxicity)
7440-22-4						
Rosin	LD50	2.800 mg/kg	oral		rat	
8050-09-7						
2-(2-(2-	LD50	> 5.170 mg/kg	oral		rat	
Butoxyethoxy)ethoxy)eth						
anol						
143-22-6						
Dodecane-1-thiol	LD50	> 5.000 mg/kg	oral		rat	
112-55-0	1					

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Copper 7440-50-8	LC50	> 5,11 mg/l		4 h	rat	OECD Guideline 436 (Acute Inhalation Toxicity: Acute
7440 30 0						Toxic Class (ATC) Method)

Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Modified rosin 144413-22-9	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Silver >= 99,9 % Ag in	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
powder (< 1 mm) 7440-22-4						Dermal Toxicity)
Rosin	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
8050-09-7						Dermal Toxicity)
2-(2-(2-	LD50	3.450 mg/kg	dermal		rabbit	
Butoxyethoxy)ethoxy)eth						
anol						
143-22-6						
Dodecane-1-thiol 112-55-0	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Modified rosin	not irritating	4 h	rabbit	OECD Guideline 404 (Acute
144413-22-9	-			Dermal Irritation / Corrosion)
Rosin	not irritating	4 h	rabbit	OECD Guideline 404 (Acute
8050-09-7				Dermal Irritation / Corrosion)
Dodecane-1-thiol	Category 1C (corrosive)	4 h	rabbit	OECD Guideline 404 (Acute
112-55-0				Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Modified rosin	moderately irritating	24 h	rabbit	OECD Guideline 405 (Acute
144413-22-9				Eye Irritation / Corrosion)
Rosin	not irritating		rabbit	OECD Guideline 405 (Acute
8050-09-7	_			Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Modified rosin 144413-22-9	not sensitising	Guinea pig maximisat ion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Dodecane-1-thiol 112-55-0	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Modified rosin 144413-22-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Rosin 8050-09-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-(2-(2- Butoxyethoxy)ethoxy)eth anol 143-22-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Copper 7440-50-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Copper 7440-50-8	negative	oral: gavage		mouse	EU Method B.12 (Mutagenicity
Dodecane-1-thiol 112-55-0	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)
Dodecane-1-thiol 112-55-0	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Modified rosin 144413-22-9	NOAEL=150 mg/kg	oral: gavage	28 ddaily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

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.

Self classification: product testing according to Classification, Labelling and Packaging Regulation EC/1272/2008, Annex 1, Part 4.

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Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
Modified rosin	LC50	> 1 mg/l	Study Fish	96 h	Oncorhynchus mykiss	OECD Guideline
144413-22-9 Modified rosin	EC50	> 1 mg/l	Daphnia	48 h	Daphnia magna	203 (Fish, Acute Toxicity Test) OECD Guideline
144413-22-9		C				202 (Daphnia sp. Acute Immobilisation
Modified rosin 144413-22-9	EC50	> 0,49 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	Test) OECD Guideline 201 (Alga, Growth
144413-22-9					subspicatus)	Inhibition Test)
	NOEC	> 0,49 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	OECD Guideline 201 (Alga, Growth
Modified rosin 144413-22-9	NOEC	1.000 mg/l	Bacteria	3 h	subspicatus) activated sludge	Inhibition Test) OECD Guideline 209 (Activated
						Sludge, Respiration Inhibition Test)
Silver >= 99,9 % Ag in powder (< 1 mm) 7440-22-4	EC50	0,00022 mg/l	Daphnia	48 h	Daphnia magna	other guideline:
Silver >= 99,9 % Ag in powder (< 1 mm) 7440-22-4	NOEC	0.32 μg/l	chronic Daphnia	21 d	Daphnia magna	EPA OPPTS 850.1300 (Daphnid Chronic Toxicity
Rosin 8050-09-7	LC50	> 1.000 mg/l	Fish	96 h	Pimephales promelas	Test) OECD Guideline 203 (Fish, Acute
Rosin 8050-09-7	EC50	911 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Rosin 8050-09-7	EC50	> 100 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
2-(2-(2- Butoxyethoxy)ethoxy)ethanol 143-22-6	LC50	2.200 - 4.600 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
2-(2-(2- Butoxyethoxy)ethoxy)ethanol 143-22-6	EC50	1.740 - 2.802 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
2-(2-(2- Butoxyethoxy)ethoxy)ethanol 143-22-6	EC50	> 612,6 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	Test) DIN 38412-09
1+J-22-U	EC10	612,6 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	DIN 38412-09
2-(2-(2- Butoxyethoxy)ethoxy)ethanol 143-22-6	EC50	> 1.000 mg/l	Bacteria	3 h	subspicatus) activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Persistence and Biodegradability: The product is not biodegradable.

1	Hazardous components	Result	Route of	Degradability	Method
	CAS-No.		application	· ·	

Modified rosin 144413-22-9	Not readily biodegradable.	aerobic	28 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Rosin 8050-09-7		aerobic	36 - 46 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2-(2-(2- Butoxyethoxy)ethoxy)ethanol 143-22-6	readily biodegradable	aerobic	92 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Dodecane-1-thiol 112-55-0	Not readily biodegradable.	aerobic	39,2 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

Bioaccumulative potential:

No data available.

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Rosin	3 - 6,2					OECD Guideline 117
8050-09-7						(Partition Coefficient (n-
						octanol / water), HPLC
						Method)
2-(2-(2-	0,51				25 °C	OECD Guideline 107
Butoxyethoxy)ethoxy)ethanol						(Partition Coefficient (n-
143-22-6						octanol / water), Shake
						Flask Method)
Dodecane-1-thiol		234		calculation		QSAR (Quantitative
112-55-0						Structure Activity
						Relationship)
Dodecane-1-thiol	> 6,5				25 °C	OECD Guideline 117
112-55-0						(Partition Coefficient (n-
						octanol / water), HPLC
						Method)

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Silver >= 99,9 % Ag in powder (< 1 mm) 7440-22-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Rosin 8050-09-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-(2-(2-Butoxyethoxy)ethoxy)ethanol 143-22-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Copper 7440-50-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

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

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.

SECTION 14: Transport information

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

< 5 %

VOC content (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:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

H413 May cause long lasting harmful effects to aquatic life.

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.