



Trade name: Elecolit® 3653

Version: 4 / GB

Date revised: 17.01.2018

Replaces Version: 3 / GB

Print date: 14.02.2018

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Cycloaliphatic Epoxyresin

**2.3. Other hazards**

No special hazards have to be mentioned.

**SECTION 3: Composition/information on ingredients****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Silver**

CAS No.	7440-22-4	
EINECS no.	231-131-3	
Registration no.	01-2119555669-21	
Concentration	>= 50 %	
Classification (Regulation (EC) No. 1272/2008)		
	Aquatic Acute 1	H400
	Aquatic Chronic 1	H410

**Cycloaliphatic Epoxyresin**

CAS No.	2386-87-0	
EINECS no.	219-207-4	
Registration no.	01-2119846133-44	
Concentration	>= 10 < 25 %	
Classification (Regulation (EC) No. 1272/2008)		
	Skin Sens. 1	H317 EUH205

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

**After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Dry powder, Carbon dioxide, Foam

#### **Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

#### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

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

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.

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

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep container tightly closed. Observe the usual precautions for handling chemicals.

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

#### **Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

#### **Storage class according to TRGS 510**

Storage class according to TRGS 510      10      Flammable liquids

#### **Further information on storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

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

### **8.1. Control parameters**

#### **Exposure limit values**

##### **Silver**

Value	0,1	mg/m <sup>3</sup>
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##### **Silver**

Value	0,1	mg/m <sup>3</sup>
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#### **Other information**

There are not known any further control parameters.

### **8.2. Exposure controls**

#### **General protective and hygiene measures**

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

#### **Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Short term: filter apparatus, Filter A

#### **Hand protection**

Chemical resistant gloves

Use	Short-term hand contact
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Appropriate Material	nitrile
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Material thickness	>=	0,4	mm
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Breakthrough time	>	480	min
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#### **Eye protection**

Safety glasses with side protection shield

#### **Body protection**

Clothing as usual in the chemical industry.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid
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<b>Colour</b>	silver-grey
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<b>Odour</b>	characteristic
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#### **Odour threshold**

Remarks	not determined
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#### **pH value**

Remarks	not determined
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#### **Melting point**

Remarks	not determined
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#### **Freezing point**

Remarks	not determined
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#### **Initial boiling point and boiling range**

Remarks	not determined
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#### **Flash point**

Value	>	100	°C
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#### **Evaporation rate (ether = 1) :**

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Remarks not determined

**Flammability (solid, gas)**

Remarks not determined

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**

Value	3,7		g/cm <sup>3</sup>
Temperature	25	°C	

**Solubility in water**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**9.2. Other information****Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No hazardous reactions known.

**Decomposition temperature**

Remarks not determined

**10.5. Incompatible materials**

None known

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**10.6. Hazardous decomposition products**

Irritant gases/vapours

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	32,4254	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)	

**Acute oral toxicity (Components)****Cycloaliphatic Epoxyresin**

Species	Rats (male/female)	
NOAEL	5	mg/kg
Duration of exposure	90	d
Method	OECD 401	

**Acute dermal toxicity**

Remarks	not determined
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**Acute inhalational toxicity**

Remarks	not determined
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**Skin corrosion/irritation**

Remarks	not determined
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**Serious eye damage/irritation**

Remarks	not determined
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**Sensitization**

Remarks	not determined
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**Subacute, subchronic, chronic toxicity**

Remarks	not determined
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**Mutagenicity**

Remarks	not determined
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**Reproductive toxicity**

Remarks	not determined
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**Carcinogenicity**

Remarks	not determined
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**Specific Target Organ Toxicity (STOT)**

Remarks	not determined
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**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****Cycloaliphatic Epoxyresin**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )
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LC50	24			mg/l
Duration of exposure	96	h		

**Daphnia toxicity (Components)****Cycloaliphatic Epoxyresin**

Species	Daphnia magna			
EC50	> 10	to	100	mg/l
Duration of exposure	48	h		

**Algae toxicity (Components)****Cycloaliphatic Epoxyresin**

Species	Selenastrum capricornutum			
EC50	22			mg/l
Duration of exposure	9	h		

**Bacteria toxicity (Components)****Cycloaliphatic Epoxyresin**

Species	activated sludge			
EC50	> 2000			mg/l
Duration of exposure	3	h		

**12.2. Persistence and degradability****General information**

not determined

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**12.6. Other adverse effects****General information**

not determined

**General information / ecology**

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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Dispose of waste according to applicable legislation.

**Disposal recommendations for packaging**

EWC waste code	15 01 10*	packaging containing residues of or contaminated by dangerous substances
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Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal

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company.

## **SECTION 14: Transport information \*\*\***

### **Land transport ADR/RID \*\*\***

**14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)

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

Class 9

Label



**14.4. Packing group**

Packing group III

Remarks

The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg (SP 375)

Limited Quantity 5 l

Transport category 3

**14.5. Environmental hazards**



ENVIRONMENTALLY HAZARDOUS

Tunnel restriction code -

### **Marine transport IMDG/GGVSee \*\*\***

**14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)

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

Class 9



**14.4. Packing group**

Packing group III

Remarks

The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.

**14.5. Environmental hazards**

Marine Pollutant



EmS

F-A, S-F

### **Air transport ICAO/IATA \*\*\***

**14.1. UN number**

UN 3082

**14.2. UN proper shipping name**



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ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)

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

Class 9



9

**14.4. Packing group**

Packing group

III

Remarks

The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (EU) 0 % 0 g/l

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

EUH205	Contains epoxy constituents. May produce an allergic reaction.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Skin Sens. 1	Skin sensitization, Category 1

**Department issuing safety data sheet**

Department product safety

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.