

Trade name: Elecolit ® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

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

1.1. Product identifier

Elecolit ® 414

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

Identified Uses

PC1

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Panacol-Elosol GmbH

Daimlerstrasse 8

61449 Steinbach (Taunus)

Telephone no. +49 (0)6171/6202-0

Fax no. +49 (0)6171/6202-590

E-mail address of msds@panacol.de

person responsible
for this SDS

1.4. Emergency telephone number

During regular office hours +49 6171 6202 0; all other times call your local Poison Control Center.

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Hazard pictograms



Signal word

Warning

Hazard statements

H319

Causes serious eye irritation.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements ***

P264.1

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

Trade name: Elecolit® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

P501.A

Dispose of waste according to applicable legislation.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Chemical characterization**

Elecolit 414

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

2-Butoxyethyl acetate

CAS No.	112-07-2
EINECS no.	203-933-3
Registration no.	01-2119475112-47
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H332
	Acute Tox. 4 H312

Diacetone alcohol

CAS No.	123-42-2
EINECS no.	204-626-7
Registration no.	01-2119473975-21
Concentration	>= 10 < 20 %
Classification (Regulation (EC) No. 1272/2008)	
	Flam. Liq. 2 H226
	Eye Irrit. 2 H319
	STOT SE 3 H335

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319 >= 10

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

Trade name: Elecolit® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

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 10 Flammable liquids
TRGS 510

Further information on storage conditions

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

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****2-Butoxyethyl acetate**

Type	STEL			
Value	332	mg/m ³	50	ppm(V)
Short term exposure limit	133	mg/m ³	20	ppm(V)

2-Butoxyethyl acetate

Value	133	mg/m ³	20	ppm(V)
Short term exposure limit	333	mg/m ³	50	ppm(V)

Diacetone alcohol

Value	241	mg/m ³	50	ppm(V)
Short term exposure limit	362	mg/m ³	75	ppm(V)

Silver

Value	0,1	mg/m ³		
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Silver

Value	0,1	mg/m ³		
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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
Appropriate Material	nitrile
Material thickness	>= 0,4 mm
Breakthrough time	> 480 min

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

Trade name: Elecolit® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	silver-grey
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	> 168 °C
Flash point	
Value	> 100 °C
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
not determined	
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Value	2,8 g/cm ³
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	
dynamic	
Value	20000 to 25000 mPa.s
Temperature	25 °C
Explosive properties	
evaluation	not determined
Oxidising properties	
Remarks	not determined

Trade name: Elecolit® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

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

10.6. Hazardous decomposition products

Irritant gases/vapours

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

Remarks not determined

Acute dermal toxicity**Elecolit 414**ATE 4,417,67 mg/kg
07

Method calculated value according to GHS (e.g see UN GHS)

Acute inhalational toxicity**Elecolit 414**

ATE 44,1767 mg/l

Administration/Form Vapors
Method calculated value according to GHS (e.g see UN GHS)**Elecolit 414**

ATE 6,0241 mg/l

Administration/Form Dust/Mist
Method calculated value according to GHS (e.g see UN GHS)**Skin corrosion/irritation**

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks not determined

Trade name: Elecolit® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

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

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

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Trade name: Elecolit® 414

Version: 3 / GB

Date revised: 18.04.2017

Replaces Version: 2 / GB

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EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal 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



9

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

E

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



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

Trade name: Elecolit® 414

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Date revised: 18.04.2017

Replaces Version: 2 / GB

Print date: 17.05.2017

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



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**

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.

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