

Anodal EE liq

Page 1(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

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

1.1. Product identifier

Trade name

Anodal EE liq

Material number: 101995

Chemical nature: alcohol mixture, Acetic acid derivative

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

Relevant identified uses of the substance or mixture

Type of use : aluminium chemicals

1.3. Details of the supplier of the safety data sheet

Identification of the company

Heubach Colorants Germany GmbH

Brüningstraße 50

65929 Frankfurt am Main

Telephone no. : +49 69 305 13619

Information about the substance/mixture

Product Stewardship

e-mail: SDS.PI.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

H332: Harmful if inhaled.

Skin corrosion, Category 1

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.

Anodal EE liq

Page 2(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

Glycolic acid
Formic acid

Additional Labelling

EUH208 Contains Formaldehyde. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No additional hazards are known except those derived from the labelling.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Glycolic acid	79-14-1 201-180-5	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 20 - < 30
Formic acid	64-18-6	Flam. Liq. 3; H226	>= 0,1 - < 1

Anodal EE liq

Page 3(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

	200-579-1 607-001-00-0 01-2119491174-37	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Corr. 1A; H314 Eye Dam. 1; H318 EUH071	
		specific concentration limit Skin Corr. 1A; H314 >= 90 % Skin Corr. 1B; H314 10 - < 90 % Skin Irrit. 2; H315 2 - < 10 % Eye Irrit. 2; H319 2 - < 10 %	
Formaldehyde	50-00-0 200-001-8 605-001-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 (Respiratory system)	< 0,1
		specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 >= 5 % Skin Sens. 1; H317 >= 0,2 %	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Remove to fresh air immediately. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water.

Anodal EE liq

Page 4(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Consult a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult a physician.

If swallowed : Do not induce vomiting. If conscious, give 2 glasses of water.
Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Risks : No additional hazards are known except those derived from the labelling.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Product is compatible with standard fire-fighting agents.

Unsuitable extinguishing media : No restrictions

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Carbon oxides

Formation of hydrogen with:
Metals

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Wear suitable protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

Anodal EE liq

Page 5(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7., For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep container tightly closed.
When used and handled appropriately no special measures are needed

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection

Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep away sources of ignition.

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Glycerine CAS-No.: 56-81-5	Workers	Inhalation	Long-term local effects	220 mg/m ³
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	132 mg/m ³
	Remarks:DNEL			
Glycolic acid	Workers	Inhalation	Acute systemic	9,2 mg/m ³

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Anodal EE liq

Page 6(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

CAS-No.: 79-14-1			effects	
	Remarks:DNEL			
	Workers	Inhalation	Acute local effects	9,2 mg/m3
	Remarks:DNEL			
	Workers	Skin contact	Long-term systemic effects	57,69 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	10,56 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Acute systemic effects	2,3 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Acute local effects	2,3 mg/m3
	Remarks:DNEL			
	Consumers	Skin contact	Acute local effects	28,85 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	2,6 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	1,53 mg/m3
	Remarks:DNEL			
	Consumers	Ingestion	Long-term systemic effects	0,75 mg/kg bw/day
	Remarks:DNEL			
Formic acid CAS-No.: 64-18-6	Workers	Inhalation	Long-term local effects	9,5 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	9,5 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	3 mg/m3
	Remarks:DNEL			
	General population	Inhalation	Long-term local effects	3 mg/m3
	Remarks:DNEL			
Formaldehyde CAS-No.: 50-00-0	Workers	Inhalation	Acute local effects	0,75 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	0,375 mg/m3
	Remarks:DNEL			
	Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day
	Remarks:DNEL			
	Workers	Skin contact	Long-term local effects	0,037 mg/cm2

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Anodal EE liq

Page 7(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

	Remarks:DNEL			
	General population	Oral	Long-term systemic effects	4,1 mg/kg bw/day
	Remarks:DNEL			
	General population	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Remarks:DNEL			
	General population	Skin contact	Long-term local effects	0,012 mg/cm2
	Remarks:DNEL			
	General population	Inhalation	Long-term systemic effects	3,2 mg/m3
	Remarks:DNEL			
	General population	Inhalation	Long-term local effects	0,1 mg/m3
	Remarks:DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Glycerine CAS-No.: 56-81-5	Sewage treatment plant	1000 mg/l
Glycolic acid CAS-No.: 79-14-1	Fresh water	0,031 mg/l
	Marine water	0,003 mg/l
	Water (intermittent release)	0,312 mg/l
	Sewage treatment plant	7 mg/l
	Fresh water sediment	0,115 mg/kg wet weight
	Marine sediment	0,011 mg/kg wet weight
	Soil	0,007 mg/kg wet weight
Formic acid CAS-No.: 64-18-6	Oral	16,66 mg/kg food
	Fresh water	2 mg/l
	salt water	0,2 mg/l
	Water (intermittent release)	1 mg/l
	Sewage treatment plant	7,2 mg/l
	Fresh water sediment	13,4 mg/kg
	Marine sediment	1,34 mg/kg
Formaldehyde CAS-No.: 50-00-0	Soil	1,5 mg/kg
	Fresh water	0,44 mg/l
	Marine water	0,44 mg/l
	Intermittent use/release	4,44 mg/l
	Fresh water sediment	2,3 mg/kg dry weight (d.w.)
	Marine sediment	2,3 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,19 mg/l

Anodal EE liq

Page 8(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Remarks : Chemical resistant gloves Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : working clothes

Respiratory protection : Protection necessary if aerosols or vapors should develop.

Protective measures : Observe the usual precautions for handling chemicals.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light yellow

Odour : not specified

Odour Threshold : not required

Melting point : Not applicable

Boiling point : approx. 100 °C (1.013 hPa)

Upper explosion limit / upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Flash point : No flash point - Measure made up to the boiling point.

Auto-ignition temperature : not determined

Decomposition temperature : no data available

pH : 1,3 (20 °C)
Concentration: 100 %

Viscosity

Viscosity, kinematic : no data available

Anodal EE liq

Page 9(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Solubility(ies)	
Water solubility	: (20 °C) miscible
Partition coefficient: n- octanol/water	: not determined
Vapour pressure	: not determined
Relative density	: no data available
Density	: 1,21 g/cm ³ (20 °C, 1.013 hPa)
Relative vapour density	: not determined
Particle characteristics	
Particle size	: Not applicable

9.2 Other information

Explosives	: no data available
Oxidizing properties	: no data available
Flammable solids	
Burning number	: Not applicable
Metal corrosion rate	: no data available
Evaporation rate	: not determined
Minimum ignition energy	: not determined
Molecular weight	: no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : not known

Anodal EE liq

Page 10(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

10.6 Hazardous decomposition products

When used and handled as intended, none.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Acute toxicity estimate: 4,91 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Remarks: no data available

Components:

Glycolic acid:

Acute oral toxicity : LD50 (Rat, male and female): 2.040 mg/kg
Method: Other
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): >= 3,6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : Remarks: Not applicable

Formic acid:

Acute oral toxicity : LD50 (Rat, male and female): 730 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.

Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): 7,85 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: no
Assessment: Corrosive to the respiratory tract.

Acute toxicity estimate: Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 11(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: By analogy with a product of similar composition

Formaldehyde:

Acute oral toxicity : LD50 (Rat, male): 640 mg/kg , calc. on anhydrous product
Method: OECD Test Guideline 401
GLP: no
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 100 ppm
Exposure time: 4 h
Test atmosphere: gas
Method: OECD Test Guideline 403
Test substance: anhydrous substance
GLP: yes
Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 270 mg/kg
Acute toxicity estimate: Method: Calculation method

Skin corrosion/irritation

Product:

Remarks : no data available

Components:

Glycolic acid:

Species : Rabbit
Exposure time : 1 - 4 h
Method : OECD Test Guideline 404
Result : Causes burns.
GLP : yes

Formic acid:

Result : Causes severe burns.

Formaldehyde:

Species : Rabbit
Exposure time : 20 h
Method : OECD Test Guideline 404
Result : Causes burns.
GLP : no

Anodal EE liq

Page 12(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Serious eye damage/eye irritation

Product:

Remarks : no data available

Components:

Glycolic acid:

Species : rabbit eye
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.
GLP : no

Formic acid:

Result : Risk of serious damage to eyes.

Formaldehyde:

Assessment : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks : no data available

Components:

Glycolic acid:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

Formic acid:

Test Type : Buehler Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Formaldehyde:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitizer, sub-category 1A.

Anodal EE liq

Page 13(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

GLP : yes

Assessment : Toxic if swallowed, in contact with skin or if inhaled., Causes severe skin burns and eye damage., Causes serious eye damage.
May cause an allergic skin reaction.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

Glycolic acid:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 625 - 5000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 1 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: mouse lymphoma cells
Concentration: 6,25 - 5000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: oral (gavage)
Exposure time: single dose, 24-48 h
Dose: 300-400-600-800-1200-1600mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Anodal EE liq

Page 14(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Germ cell mutagenicity-
Assessment : It is concluded that the product is not mutagenic based on
evaluation of several mutagenicity tests.

Formic acid:

Genotoxicity in vitro : Test Type: sister chromatid exchange assay
Test system: V79 cells (embryonic lung fibroblasts) of the
Chinese hamster
Concentration: 18,4 - 92 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative
GLP: No information available.

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster ovary cells
Concentration: 25 - 500 µl/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: sister chromatid exchange assay
Test system: Human lymphocytes
Concentration: 29 - 460 µg/ml
Metabolic activation: without
Method: OECD Test Guideline 479
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 138 - 1266 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: No information available.

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 10 - 3333 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Genotoxicity in vivo : Species: Drosophila melanogaster (vinegar fly) (male)
Application Route: oral (feed)
Exposure time: entire larval stage
Dose: 0,1% as formic acid
Method: OECD Test Guideline 477
Result: negative
GLP: no

Anodal EE liq

Page 15(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Germ cell mutagenicity-
Assessment : It is concluded that the product is not mutagenic based on
evaluation of several mutagenicity tests.

Formaldehyde:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Concentration: 0,5 - 8 µg/ml
Method: OECD Test Guideline 473
Result: positive
GLP: yes

Test Type: unscheduled DNA synthesis assay
Method: Other
Result: positive
GLP: No information available.

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Strain: Fischer F344
Application Route: Inhalation
Exposure time: 6 h
Dose: 0,7 - 2 - 5,8 - 9,1 ppm
Method: Other
Result: positive
GLP: No information available.

Germ cell mutagenicity-
Assessment : In vitro tests showed mutagenic effects, In vivo tests showed
mutagenic effects

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Components:

Glycolic acid:

Carcinogenicity -
Assessment : Animal testing did not show any carcinogenic effects.

Formic acid:

Carcinogenicity -
Assessment : Animal testing did not show any carcinogenic effects.

Formaldehyde:

Carcinogenicity -
Assessment : Possible human carcinogen

Anodal EE liq

Page 16(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Components:

Glycolic acid:

Effects on fertility : Test Type: One generation study
Species: Mouse, male and female
Application Route: oral (gavage)
Dose: 150 - 300 - 600 mg/kg
General Toxicity - Parent: NOAEL: 600 mg/kg body weight
General Toxicity F1: NOAEL: 600 mg/kg body weight
Method: OECD Test Guideline 415
GLP: yes

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Oral
Dose: 75 - 150 - 300 - 600 mg/kg
Duration of Single Treatment: 14 d
Frequency of Treatment: 1 daily
General Toxicity Maternal: NOAEL: 150 mg/kg body weight
Teratogenicity: NOAEL: 150 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 150 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

Formic acid:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: wistar
Application Route: oral (feed)
Dose: 100 - 300 - 1000 mg/kg
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight
General Toxicity F1: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Species: Rabbit, female
Strain: Himalayan
Application Route: oral (gavage)
Dose: 100 - 300 - 1000 mg/kg
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight
Teratogenicity: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Anodal EE liq

Page 17(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Remarks: By analogy with a product of similar composition

Reproductive toxicity -
Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

Formaldehyde:

Effects on foetal
development : Test Type: Pre-natal
Species: Mouse, female
Strain: CD1
Application Route: oral (gavage)
Dose: 74, 148, 185 mg/kg bw
Duration of Single Treatment: 9 d
Frequency of Treatment: 1 daily
General Toxicity Maternal: LOAEL: 74 mg/kg body weight
Developmental Toxicity: NOAEL: 185 mg/kg body weight
Method: OECD Test Guideline 414
GLP: No information available.

Reproductive toxicity -
Assessment : No evidence of adverse effects on sexual function and fertility,
or on development, based on animal experiments.

STOT - single exposure

Product:

Remarks : no data available

Components:

Glycolic acid:

Assessment : The substance or mixture is not classified as specific target
organ toxicant, single exposure.

Formic acid:

Assessment : The substance or mixture is not classified as specific target
organ toxicant, single exposure.

Formaldehyde:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Glycolic acid:

Assessment : The substance or mixture is not classified as specific target
organ toxicant, repeated exposure.

Anodal EE liq

Page 18(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Formic acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Formaldehyde:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Glycolic acid:

Species : Rat, male and female
NOAEL : 150 mg/kg
Application Route : oral (gavage)
Exposure time : 90 d
Number of exposures : daily
Dose : 150 - 300 - 600 mg/kg
Control Group : yes
Method : OECD Test Guideline 408
GLP : yes

Species : Rat, male
: 0,23 mg/l
Application Route : Inhalation
Exposure time : 14 d
Number of exposures : 5 days/week; 6 hours/day
Dose : 0,2 - 0,7 - 2 mg/l
Control Group : yes
Method : Other
GLP : no

Remarks : This information is not available.

Formic acid:

Species : Rat, male and female
NOAEL : 400 mg/kg
LOAEL : 2.000 mg/kg
Application Route : oral (feed)
Exposure time : 52 w
Number of exposures : daily
Dose : 50 - 400 - 2000 mg/kg
Control Group : yes
Method : OECD Test Guideline 453
GLP : yes

Species : Rat, male and female
NOAEL : 0,122 mg/l

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 19(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

LOAEL : 0,244 mg/l
Application Route : Inhalation
Exposure time : 13 w
Number of exposures : 6 hours/day; 5 days/week
Dose : 0,015 - 0,244 mg/l
Control Group : yes
Method : OECD Test Guideline 413
GLP : yes

Application Route : Dermal
Remarks : The study is not necessary from a scientific perspective.

Formaldehyde:

Species : Rat, male and female
NOAEL : 15 - 21 mg/kg bw/day
Application Route : Drinking water
Exposure time : 12 - 18 - 24 m
Number of exposures : daily
Dose : 5, 25, 125 mg/kg bw/day
Control Group : yes
Method : OECD Test Guideline 453
Test substance : anhydrous substance
GLP : yes

Species : Rat
NOAEL : 0,00125 - 0,0025 mg/l
Application Route : Inhalation
Method : Repeated Dose Toxicity (subchronic study)
Test substance : anhydrous substance
GLP : yes

Application Route : Skin contact
Remarks : This information is not available.

Aspiration toxicity

Product:

no data available

Components:

Glycolic acid:

No aspiration toxicity classification

Formic acid:

No aspiration toxicity classification

Formaldehyde:

No aspiration toxicity classification

Anodal EE liq

Page 20(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Components:

Glycolic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 164 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: EPA
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 141 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 44 mg/l
End point: Growth rate
Exposure time: 72 h

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 21(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

EC50 (Pseudokirchneriella subcapitata (green algae)): 21,6 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to microorganisms : EC50 (activated sludge): > 70 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: yes
Method: OECD Test Guideline 209
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Formic acid:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): ca. 95 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: By analogy with a product of similar composition

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 22(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): ca. 266 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

NOEC (Daphnia magna (Water flea)): ca. 131 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): ca. 905 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

Toxicity to microorganisms : NOEC (activated sludge, domestic): 72 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 13 d
Test Type: static test
Analytical monitoring: no
Method: Other
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: \geq 100 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes

Anodal EE liq

Page 23(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Method: OECD Test Guideline 211

GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Formaldehyde:

Toxicity to fish : LC50 (Marine species): 6,7 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: Other
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 5,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 4,89 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,25 mg/l

Anodal EE liq

Page 24(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

End point: Growth rate
Exposure time: 48 h
Test Type: flow-through test
Analytical monitoring: yes
Method: EPA
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to microorganisms : EC50 (activated sludge): 19 - 20,4 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC: \geq 48 mg/l
End point: mortality
Exposure time: 28 d
Species: *Oryzias latipes* (Orange-red killifish)
Test Type: flow-through test
Analytical monitoring: no data available
Method: OECD Test Guideline 215
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: \geq 6,4 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Plant toxicity : NOEC: 0,018 μ g/l
Exposure time: 40 d
Species: *Triticum aestivum* (wheat)
Method: Other
GLP: No information available.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Product:

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 25(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Related to: Dissolved organic carbon (DOC)

Components:

Glycolic acid:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 71,7 µl/l
Result: Readily biodegradable.
Biodegradation: 78 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

Physico-chemical removability : Remarks: Readily biodegradable, according to appropriate OECD test.

Stability in water : Test Type: abiotic
Degradation half life (DT50): > 365 d (25 °C)
pH: 4 - 9
Method: OECD Test Guideline 111

Photodegradation : Test Type: air
Sensitiser: OH
Remarks: Not applicable

Test Type: water
Light source: Other
Remarks: Decomposes slowly in contact with light.

Formic acid:

Biodegradability : Test Type: aerobic
Inoculum: Other
Concentration: 100 mg/l
Result: Readily biodegradable.
Biodegradation: 100 %
Related to: BOD in % of theoretical OD
Exposure time: 14 d
Method: OECD Test Guideline 301C
GLP: no

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

Glycolic acid:

Anodal EE liq

Page 26(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Formic acid:

Bioaccumulation : Remarks: Not applicable
Due to the low logPow bioaccumulation is not expected

12.4 Mobility in soil

Components:

Glycolic acid:

Distribution among environmental compartments : adsorption
Medium: water - soil
log Koc: < 1,4
Method: OECD Test Guideline 121

Formic acid:

Distribution among environmental compartments : adsorption
Medium: water - soil
log Koc: < 1,25
Method: OECD Test Guideline 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Glycolic acid:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Formic acid:

Assessment : The substance is not identified as a PBT or as a vPvB substance.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Anodal EE liq

Page 27(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

12.7 Other adverse effects

Product:

Environmental fate and pathways : no data available

Additional ecological information : The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

Components:

Glycolic acid:

Environmental fate and pathways : no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Formic acid:

Environmental fate and pathways : not available

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

Formaldehyde:

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Incineration in an approved, controlled furnace with combustion gas scrubbing and emission gas control.

Contaminated packaging : Consider recycling.

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR

UN no.	UN 1760
Proper shipping name:	Corrosive liquid, n.o.s.
Hazard inducer(s):	Glycolic Acid
Class:	8
Primary risk:	8
Packing group:	II
Hazard no. :	80
Remarks	Shipment permitted

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 28(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

ADN

UN no.	UN 1760
Proper shipping name:	Corrosive liquid, n.o.s.
Hazard inducer(s):	Glycolic Acid
Class:	8
Primary risk:	8
Packing group:	II
Remarks	Shipment permitted

RID

UN no.	UN 1760
Proper shipping name:	Corrosive liquid, n.o.s.
Hazard inducer(s):	Glycolic Acid
Class:	8
Primary risk:	8
Packing group:	II
Hazard no. :	80
Remarks	Shipment permitted

IATA

UN no.	UN 1760
Proper shipping name:	Corrosive liquid, n.o.s.
Hazard inducer(s):	Glycolic Acid
Class:	8
Primary risk:	8
Packing group:	II
Remarks	Shipment permitted

IMDG

UN no.	UN 1760
Proper shipping name:	Corrosive liquid, n.o.s.
Hazard inducer(s):	Glycolic Acid
Class:	8
Primary risk:	8
Packing group:	II
Remarks	Shipment permitted
EmS :	F-A S-B

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3 Formaldehyde (Number on list 72,
--	---

Anodal EE liq

Page 29(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

28)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H331	:	Toxic if inhaled.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H341	:	Suspected of causing genetic defects.
H350	:	May cause cancer.
EUH071	:	Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage

Anodal EE liq

Page 30(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Flam. Liq. : Flammable liquids
Muta. : Germ cell mutagenicity
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Acute Tox. 4 H332
Skin Corr. 1 H314
Eye Dam. 1 H318

Classification procedure:

Calculation method
Based on product data or assessment
Based on product data or assessment

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Heubach makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Heubach's products for its particular application.

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Anodal EE liq

Page 31(31)

Substance key: KS15967

Revision Date: 03.06.2022

Version : 10 - 1 / EU

Date of printing : 10.12.2022

Nothing included in this information waives any of Heubach's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Heubach products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Heubach.

REG_EU / EN