

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

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

Information on the product / trade name:

Elektrolyte GE 21

Identified uses:

for Surface treatment
only for industrial use

REACH Registration number:

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Producer:

Kai Greising e. K. Clean Marker
Industriestraße 29/2
73340 Amstetten
Germany
phone: 0049 7331-3058-0
fax: 0049 7331 981722

Emergency telephone number:

poison emergency center Freiburg

phone: 0049 761-19240

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

Signal word not required

2.3 Special hazard warnings for humans and the environment:



During the electrochemical process, electrolyte vapors may formed

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture

Water / mineral salt complexing agent mixture containing sodium nitrate

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
Sodium nitrate	CAS No 7631-99-4 EC No 231-554-3	< 6	Ox. Sol. 3 / H272 Eye Irrit. 2 / H319	 

SECTION 4: First aid measures

4.1 Description of first aid measures



General information: Take off contaminated clothing.

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

After inhalation: Provide fresh air. In the event of symptoms, take medical treatment
After skin contact: In case of contact with skin wash off with plenty of soap and water
After eye contact: Rinse Eyes immediately with plenty of water with open eyelid gap at least 15 min. consult an ophthalmologist. Remove contact lenses.
After swallowing: Rinse mouth and drink plenty of water.
Call a doctor if you feel unwell

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Coordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Hazardous combustion products

in case of fire and/or explosion do not breathe fumes

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No special measures are necessary.

6.2 Environmental precautions

Not required.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

No special measures are necessary.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Other information relating to spills and releases

Place in appropriate containers for disposal.

Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Ventilation requirements

Use local and general ventilation

• Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Data are not available.

8.2 Exposure controls

Individual protection measures (personal protective equipment)



Eye/face protection

Use safety goggle with side protection.

Skin protection

• hand protection

Disposable gloves are recommended.

Respiratory protection

Not required.

Environmental exposure controls

Keep away from drains, surface and ground water.

General protection and hygiene measures:

Do not eat, drink, smoke, or sniff while at work. Wash hands immediately before breaks and after work. Avoid contact with eyes. Keep away from food and beverages.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid (fluid)
Colour	colourless
Odour	odourless
Odour threshold	No data available

Other physical and chemical parameters

pH (value)	(neutral)
Melting point/freezing point	~ 0 °C
Initial boiling point and boiling range	~ 100 °C

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

Flash point	not determined
Evaporation rate	no data available
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
• lower explosion limit (LEL)	this information is not available
• upper explosion limit (UEL)	this information is not available
Explosion limits of dust clouds	not relevant
Vapour pressure	This information is not available.
Density	~ 1 g/cm ³
Vapour density	This information is not available.
Bulk density	Not applicable
Relative density	Information on this property is not available.
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	Information on this property is not available.
Decomposition temperature	no data available
Viscosity	not determined
Explosive properties	none
Oxidising properties	None

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

• Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

data are not available

• If in eyes

Not an irritant

• If inhaled

essentiell non-irritating

• If on skin

Not an irritant

11.2 Other information

None

SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

12.2 Process of degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	Log KOW
sodium nitrate	7631-99-4	-3,8

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Non-hazardous to water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions handed over to take-back systems. Possible deviations in other countries are not taken into consideration.

SECTION 14: Transport information

- 14.1 UN number (not subject to transport regulations)
- 14.2 UN proper shipping name not relevant
- 14.3 Transport hazard class(es) not relevant
Class ---
- 14.4 Packing group not relevant
- 14.5 Environmental hazards none (non-environmentally hazardous acc. to the dangerous)
- 14.6 **Special precautions for user**
There is no additional information.
- 14.7 **Transport in bulk according to Annex II of MARPOL and the IBC Code**
The cargo is not intended to be carried in bulk.
- 14.8 **Information for each of the UN Model Regulations**
- **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**
Not subject to ADR, RID and ADN.
 - **International Maritime Dangerous Goods Code (IMDG)**
Not subject to IMDG.
 - **International Civil Aviation Organization (ICAO-IATA/DGR)**
Not subject to IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

- **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**
None of the ingredients are listed.
- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**
None of the ingredients are listed.
- **Regulation 850/2004/EC on persistent organic pollutants (POP)**
None of the ingredients are listed.
- **List of substances subject to authorisation (REACH, Annex XIV)**
None of the ingredients are listed.
- **Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)**

VOC content 0 %

- **Directive on industrial emissions (VOCs, 2010/75/EU)**

VOC content 0 %

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II
None of the ingredients are listed.

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other Information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals"
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine
NLP	No-Longer Polymer
Ox. Sol.	oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

EG-SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), changed with 2015/830/EC



Elektrolyte GE 21

List of relevant phrases (code and full text as stated in chapter 2 and 3)
not relevant.

Code	Text
H272	may intensify fire; oxidiser
H319	causes serious eye irritation

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. This information is not an assurance of properties.

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