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:

Emergency telephone number:
poison emergency center Freiburg

Kai Greising e. K. Clean Marker

Industriestraße 29/2 73340 Amstetten

Germany

<u>phone:</u> 0049 7331-3058-0 <u>phone:</u> 0049 761-19240

fax: 0049 7331 981722

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	(1)

SECTION 4: First aid measures

4.1 Description of first aid measures



General information: Take off contaminated clothing.

Revision Date: October 2018 page 1/8

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



Elektrolyte GE 21

After inhalation:
After skin contact:
After eye contact:
After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

After eye contact:

Brovide fresh air. In the event of symptoms, take medical treatment in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of soap and water in case of contact with skin wash off with plenty of water with open eyelid gap at least 15 min. consult an ophthalmologist. Remove contact lenses.

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

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

After swallowing:

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.

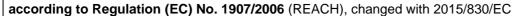
SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

Revision Date: October 2018 page 2/8





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

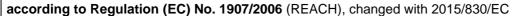
Physical state liquid (fluid)
Colour colourless
Odour odourless

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

Revision Date: October 2018 page 3/8





Elektrolyte GE 21

Flash point not determined Evaporation rate no data available Flammability (solid, gas) not relevant (fluid)

Explosive limits

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available
 this information is not available
 explosion limits of dust clouds
 not relevant

Vapour pressure This information is not available

Density ~ 1 g/cm³

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

of

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 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

Revision Date: October 2018 page 4/8





Elektrolyte GE 21

Shall not be classified as a respiratory or skin sensitiser.

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.

Revision Date: October 2018 page 5/8

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.

Not subject to with the

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 %

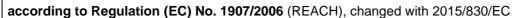
Directive on industrial emissions (VOCs, 2010/75/EU)

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.

Revision Date: October 2018 page 6/8





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

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 identifi- er 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				
	<u> </u>				

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)

Revision Date: October 2018 page 7/8



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.



Revision Date: October 2018 page 8/8