

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Elektrolyt AE 39

Material number 22.039

Revision date:21.12.2022Version:4.1Replaces version:4.0Language:en-DEDate of print:21.12.2022Page:1 of 8

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

1.1 Product identifier

Trade name:

LIEI

G910-S041-K006-RA5C

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

General use:

e: Electrolytic/electrochemical metal marking for steels and chrome-plated parts (pH-neutral).

1.3 Details of the supplier of the safety data sheet

Elektrolyt AE 39

Company name:	Schilling Marking Systems GmbH
Street/POB-No .:	In Grubenäcker 1
Postal Code, city:	DE-78532 Tuttlingen
WWW:	www.schilling-marking.de
E-mail:	info@schilling-marking.de
Telephone:	+49 (0)7461 9472-0
Telefax:	+49 (0)7461 9472-28
Department responsible for inf	ormation:

Frau Bianca Schilling, Telephone: +49 (0)7461 9472-0 Email: info@schilling-marking.de

1.4 Emergency telephone number

GIZ-Nord, Germany Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

Labelling (CLP)

(o)		
Signal word:	Warning	
Hazard statements:	H319	Causes serious eye irritation.
Precautionary statements:	P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
	P264 P280	Wash hands and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	P337+P313	lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

 Revision date:
 21.12.2022

 Version:
 4.1

 Replaces version:
 4.0

 Language:
 en-DE

 Date of print:
 21.12.2022

 Page:
 2 of 8

Elektrolyt AE 39 Material number 22.039

2.3 Other hazards

Electrolytic vapours may form during the electrochemical process. According to the pH value of 6,5 - 7,2 the product is not to be classified as corrosive.

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Chemical characterisation:

mixture of water/mineral salt and complexing agent, nitrite-free Mixture of the substances listed below with non-hazardous additions

Identifiers	Designation Classification	Content
EC No. 201-069-1 CAS 5949-29-1	Citric acid monohydrate Eye Irrit. 2; H319. STOT SE 3; H335.	< 10 %
EC No. 215-185-5 CAS 1310-73-2	Caustic soda Skin Corr. 1A; H314. Specific concentration limits (SCL): Skin Corr. 1A; H314: C ≥ 5 % / Skin Corr. 1B; H314: 2 % ≤ C < / Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % / Eye Irrit. 2; H319: 0,5 %	
EC No. 200-661-7 CAS 67-63-0	Isopropyl alcohol Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.	< 10 %
EC No. 229-347-8 CAS 6484-52-2	Ammonium nitrate Ox. Sol. 3; H272.	< 5 %

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2 Most important symptoms and effects, both acute and delayed	

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Elektrolyt AE 39

Material number 22.039

Revision date: 21 12 2022 Version: 4.1 4.0 Replaces vers en-DF Language 21.12.2022 Date of print: 3 of 8

Page

5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundinas.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours. In case of fire may be liberated: Nitrogen oxides (NOx), sodium compounds, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Use fine water spray to cool endangered containers. Additional information

> Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid contact with the substance. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Thoroughly clean surrounding area. Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion

Product is non-combustible. Take standard precautions to prevent fire.

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according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Elektrolyt AE 39

Material number 22.039

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storerooms and containers:

Marking Systems Gmbh

	Keep container tightly closed and in a well-ventilated place.
	Keep container dry. Keep only in the original container.
	Protect from heat and direct sunlight. Protect from frost.
	Store containers in upright position.
Hints on joint storage:	Do not mix chemical with any other chemicals except water. Keep away from food, drink and animal feedingstuffs.
Storage class:	12 = Non-combustible liquids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
67-63-0	Isopropyl alcohol	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	1000 mg/m ³ ; 400 ppm 500 mg/m ³ ; 200 ppm

Biological limit values:

CAS No.	Designation	Туре	Limit value	Parameter	Sampling
67-63-0	Isopropyl alcohol	Germany: TRGS 903, blood Germany: TRGS 903, urine	0	acetone	end of exposure or end of shift end of exposure or end of shift

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
Hand protection:	Protective gloves according to EN 374.
	Glove material: Nitrile rubber.
	Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Wear suitable protective clothing.
General protection and hygien	ne measures:
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
	Take off contaminated clothing and wash it before reuse.
	Do not eat, drink or smoke when using this product.
	Wash hands thoroughly after handling.
	Work place should be equipped with a shower and an eve rinsing apparatus.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

 Revision date:
 21.12.2022

 Version:
 4.1

 Replaces version:
 4.0

 Language:
 en-DE

 Date of print:
 21.12.2022

 Page:
 4 of 8

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

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Elektrolyt AE 39

Material number 22.039

Revision date:21.12.2022Version:4.1Replaces version:4.0Language:en-DEDate of print:21.12.2022Page:5 of 8

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possilbility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.

10.4 Conditions to avoid

Protect from frost.

10.5 Incompatible materials

Do not mix chemical with any other chemicals except water.

10.6 Hazardous decomposition products

 No decomposition when used properly.

 Thermal decomposition:
 No data available



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Elektrolyt AE 39

Material number 22.039

Revision date: 21 12 2022 Version: 4.1 4.0 Replaces version: Language: en-DF Date of print: 21.12.2022 Page

6 of 8

SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Based on available data, the classification criteria are not met. Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Lack of data. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data. 11.2 Information on other hazards

Endocrine disrupting properties: No data available

Symptoms

In case of inhalation: Electrolytic vapours may form during the electrochemical process. May be harmful if inhaled. After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Water Hazard Class 1 = slightly hazardous to water (self-classified)

12.2 Persistence and degradability

Further details:

Easily bio-degradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

AOX reference: Product does not contain organically bound halogen (AOX).



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Elektrolyt AE 39

Material number 22.039

Revision date: 21 12 2022 Version: 4.1 4.0 Replaces version: Language: en-DF Date of print: 21.12.2022 7 of 8 Page:

General information:

Do not allow to enter into ground-water, surface water or drains.

The following applies to nitrates in general:

May contribute to the eutrophication of water supplies. Danger to drinking water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number:	 11 01 98* = Wastes from chemical surface treatment and coating of metals and other materials * = Evidence for disposal must be provided.
Recommendation:	Dispose of waste according to applicable legislation. Do not dispose of with household waste.
Packado	

Package Waste key number:

15 01 02 = Plastic packaging Recommendation Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations. no

Marine pollutant:

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 12 = Non-combustible liquids

Water Hazard Class 1 = slightly hazardous to water (self-classified)

Technical guidance air: 525



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Elektrolyt AE 39

Material number 22.039

Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

No data available

National regulations - EC member states

Volatile organic compounds (VOC):

< 10 % by weight

Further regulations, limitations and legal requirements: **Product:**

Use

Ammonium nitrate:

Use restriction according to REACH annex XVII, no.: 3, 75 Regulation (EU) No 2019/1148 (marketing and use of explosives precursors)

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases und	er paragraph 2 and 3: H225 = Highly flammable liquid and vapour. H272 = May intensify fire; oxidiser. H314 = Causes severe skin burns and eye damage. H319 = Causes serious eye irritation. H335 = May cause respiratory irritation. H336 = May cause drowsiness or dizziness.
Reason of change:	General revision
Date of first version:	29.6.2017
Department issuing data shee	t see section 1: Department responsible for information
Abbreviations and acronyms:	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road AOX: Adsorbable Organic Halogens AS/NZS: Australian Standards/New Zealand Standards CAS: Chemical Abstracts Service CFR: Code of Federal Regulations CLP: Classification, Labelling and Packaging DMEL: Derived minimal effect level DNEL: Derived no-effect level EX: European Community EX: European Standard CA: European Standard EX: European Standard EX: European Standard EX: European Standard EX: European Standard EX: European Standard EX: European Inion Eye Inti: Eye irritation Fye Inti: Eye irritation Fye Inti: Eye irritation Eye Inti: Eye irritation IATA-DGR: International Air Transport Association IATA-DGR: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Air Transport Association of Dangerous Goods Regulations IBC Code: International Air Transport Association of the Prevention of Pollution from Ships OEL: Occupational Exposure Limit Value OSHA: Occupational Exposure Limit Value OSHA: Occupational Safety and Health Administration OX. Sol: Oxidism golds PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail Skin Corr: Skin corrosion STOT SE: Specific target organ toxicity - single exposure ITV: Threshold Limit Value TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative WE: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.