

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

1.1 Product identifier

Trade name: EW 13 electrolyte for aluminium

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

General use: Electrolyte for aluminium
For commercial user only

1.3 Details of the supplier of the safety data sheet

Company name: GIMA e.K.
Street/POB-No.: Altenberger-Dom-Straße 56b
Postal Code, city: 51467 Bergisch Gladbach
Germany

WWW: www.gima-ib.de
E-mail: info@gima-ib.de
Telephone: +49 (0)2202 2 85 85 0
Telefax: +49 (0)2202 2 85 85 28

Dept. responsible for information:
Michel J. Girard,
Telephone: +49 (0)2202 2 85 85 0, Email info@gima-ib.de

1.4 Emergency telephone number

Michel J. Girard,
Telephone: +49 (0)2202 2 85 85 0, Email info@gima-ib.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Resp. Sens. 1; H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1; H317	May cause an allergic skin reaction.
Muta. 2; H341	Suspected of causing genetic defects.
Carc. 1A; H350i	May cause cancer by inhalation.
Repr. 1B; H360D	May damage the unborn child.
STOT RE 1; H372	Causes damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

EW 13 electrolyte for aluminium

Material number EW13

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Hazard statements:	H317	May cause an allergic skin reaction.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H341	Suspected of causing genetic defects.
	H350i	May cause cancer by inhalation.
	H360D	May damage the unborn child.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:	P201	Obtain special instructions before use.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P405	Store locked up.

Special labelling

Text for labelling: Contains Nickel sulphate.
Restricted to professional users

2.3 Other hazards

No risks worthy of mention.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 232-104-9 CAS 7786-81-4	Nickel sulphate	7 - 8 %	Acute Tox. 4; H302. Acute Tox. 4; H332. Skin Irrit. 2; H315. Resp. Sens. 1; H334. Skin Sens. 1; H317. Muta. 2; H341. Carc. 1A; H350i. Repr. 1B; H360D. STOT RE 1; H372. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EC No. 201-069-1 CAS 77-92-9	Citric acid, anhydrous	2 - 2.5 %	Eye Irrit. 2; H319.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: Take off immediately all contaminated clothing and wash it before reuse.
In case of accident or if you feel unwell, seek medical advice immediately. First aider:
Pay attention to self-protection!
- In case of inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Immediately get medical attention.
- 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.
Seek the attention of an ophthalmologist immediately.
- After swallowing: Do not induce vomiting. Rinse mouth immediately and drink plenty of water.
Never give an unconscious person anything through the mouth.
Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Harmful and/or toxic vapours may be produced in the event of thermal decomposition.
In the event of a fire, the following may be produced when the water evaporates: Toxic metal oxide smoke, sulphur oxides 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.

Additional information:

Hazchem-Code: •3Z

Do not breathe fumes.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected people away. Avoid exposure.
Wear appropriate protective equipment. Provide adequate ventilation.
Avoid contact with skin, eyes, and clothing.
Do not breathe dust/fume/gas/mist/vapours/spray.
Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.
In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Thoroughly clean surrounding area.

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.
Obtain special instructions before use.
Wear appropriate protective equipment. Avoid contact with skin, eyes, and clothing.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands before breaks and after work.
Take off immediately all contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product.
Work place should be equipped with a shower and an eye rinsing apparatus.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep in a cool, well-ventilated place.
Keep only in the original container. Keep container dry.
Protect from direct sunlight. Keep away from sources of ignition.
Only trained personnel may be allowed to enter storage area.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

- Respiratory protection: Use a breathing protection against vapours/aerosol.
Recommendation: Use filter type B-(P3) according to EN 14387.
- Hand protection: Protective gloves according to EN 374.
Glove material: natural rubber-Layer thickness: 0.5 mm
Breakthrough time: >480 min.
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 hygiene measures:
Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapours/spray.
Take off immediately all contaminated clothing and wash it before reuse.
Avoid contact with skin, eyes, and clothing.
Wash hands before breaks and after work.
When using do not eat, drink or smoke. Work place should be equipped with a shower and an eye rinsing apparatus.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: green
- Odour: characteristic
- Odour threshold: No data available
- pH value: No data available
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: > 60 °C
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available
- Vapour pressure: No data available
- Vapour density: No data available
- Density: No data available
- Solubility: No data available
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity, kinematic: No data available
- Explosive properties: No data available
- Oxidizing characteristics: No data available

9.2 Other information

- Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

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 direct sunlight. Keep away from sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Resp. Sens. 1; H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Muta. 2; H341 = Suspected of causing genetic defects.

Carcinogenicity: Carc. 1A; H350i = May cause cancer by inhalation.

Reproductive toxicity: Repr. 1B; H360D = May damage the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): STOT RE 1; H372 = Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Other information: Information about Citric acid:

LD50 Rat, oral: 3000 mg/kg

Information about Nickel sulphate:

LD50 Rat, oral: 361.9 mg/kg

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Nickel sulphate:
Algae toxicity:: EC50 Scenedesmus quadricauda: 0.39 mg/L/72h
Daphnia toxicity:: EC50 Daphnia magna: 2.58 mg/L/48h
Fish toxicity:: LC50 Clarias batrachus: 71.5 mg/L/96h

12.2 Persistence and degradability

Further details: No data available

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 Other adverse effects

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

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 (eg. galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

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.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
UN 3082

EW 13 electrolyte for aluminium

Material number EW13

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14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Nickel sulphate)

14.3 Transport hazard class(es)

ADR/RID: Class 9, Code: M6

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

III

14.5 Environmental hazards

Marine pollutant: yes

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:

ADR/RID: Kemmler-number 90, UN number UN
3082

Hazard label:

9

Special provisions:

274 335 375 601

Limited quantities:

5 L

EQ:

E1

Contaminated packaging - Instructions:

P001 IBC03 LP01 R001

Contaminated packaging - Special provisions:

PP1

Special provisions for packing together:

MP19

Portable tanks - Instructions:

T4

Portable tanks - Special provisions:

TP1 TP29

Tank coding:

LGBV

Tunnel restriction code:

-



Sea transport (IMDG)

EmS:

F-A, S-F

Special provisions:

274, 335, 969

Limited quantities:

5 L

Excepted quantities:

E1

Contaminated packaging - Instructions:

P001, LP01

Contaminated packaging - Provisions:

PP1

IBC - Instructions:

IBC03

IBC - Provisions:

-

Tank instructions - IMO:

-

Tank instructions - UN:

T4

Tank instructions - Provisions:

TP2, TP29

Stowage and handling:

Category A.

Properties and observations:

-

Segregation group:

none



Air transport (IATA)

Hazard label:	Miscellaneous
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special provisions:	A97 A158 A197
Emergency Response Guide-Code (ERG):	9L



14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •3Z
No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word: **Danger**

Hazard statements:	H317	May cause an allergic skin reaction.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H341	Suspected of causing genetic defects.
	H350i	May cause cancer by inhalation.
	H360D	May damage the unborn child.
	H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:	P201	Obtain special instructions before use.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P405	Store locked up.

Further regulations, limitations and legal requirements:
Use restriction according to REACH annex XVII, no.: 3, 27, 28, 30

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

- H302 = Harmful if swallowed.
- H315 = Causes skin irritation.
- H317 = May cause an allergic skin reaction.
- H319 = Causes serious eye irritation.
- H332 = Harmful if inhaled.
- H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 = Suspected of causing genetic defects.
- H350i = May cause cancer by inhalation.
- H360D = May damage the unborn child.
- H372 = Causes damage to organs through prolonged or repeated exposure.
- H400 = Very toxic to aquatic life.
- H410 = Very toxic to aquatic life with long lasting effects.
- H411 = Toxic to aquatic life with long lasting effects.

Date of first version: 16/5/2018

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.