

Material Safety Data Sheet

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According to 2001/58/EC

1 - Product and Company Information

Product Name Electrolyte AE 13

Product Number 22.013

Use of the substance/preparation

Electrolytic marking / Application for steels low corrosion

Company SCHILLING Marking Systems GmbH

In Grubenaecker 1

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Germany

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Emergency Phone # +49 (0)30 19240 Advisory office for
poisoning phenomena, Berlin

US and Canada Chemtrec Phone Number: +1 (800) 424-9300

2 - Composition/Information on Ingredients

| Product Name | CAS # | EC no | Annex I Index Number |
|-------------------|-------|-------|-------------------------|
| Electrolyte AE 13 | None | | |

Chemical characterization Agent: Preparation:

Description Water-/mineral salt-complex former-mixture

3 - Hazards Identification

INDICATION OF DANGER

N/A

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

May release electrolyte vapours during electrochemical process.

4 - First Aid Measures

GENERAL

No special measures required.

AFTER INHALATION

No special measures required.

AFTER SKIN CONTACT

In general product is not irritating to skin.

AFTER EYE CONTACT

Flush eyes for a couple of minutes with rinsing water lifting the eyelids.

AFTER INGESTION

If discomforts continue obtain medical attention.

5 - Fire Fighting Measures

Not applicable due to aqueous formulation / not combustible.

6 - Accidental Release Measures

PERSONAL PRECAUTION MEASURES

Not required.

ENVIRONMENTAL MEASURES

No special measures required.

METHODS FOR CLEANING UP

Collect mechanical.

ADDITIONAL INFORMATION

No hazardous substances will be released.

(Prevent penetration into the sewerage system, soil and ground water)

7 - Handling and Storage

HANDLING

Directions for Safe Handling: No special measures required.

Directions for Fire-fighting and Explosion protection: No special measures required.

STORAGE

Requirement on storage and container: No special measures required.

Directions for joint storage: Electrolyte is not allowed to be mixed with other chemicals.

Other information of conditions of storage: None

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Additional directions to the design of engineering controls: No additional information, see section 7.

Components with workplace-related limits to be controlled:

| <u>CAS-No.</u> | <u>Designation of substance</u> | <u>%</u> | <u>Type</u> | <u>Value</u> | <u>Unit</u> |
|---------------------------------|---------------------------------|----------|-------------|--------------|-------------|
| not applicable for preparations | | | | | |

GENERAL HYGIENE MEASURES

The conventional precautionary measures in handling chemicals must be followed.

PERSONAL PROTECTIVE EQUIPMENT**RESPIRATORY PROTECTION**

Ensure sufficient fresh air at the workplace.

EYE PROTECTION

Safety goggles recommended when refilling.

HAND PROTECTION

Use recommended.

9 - Physical and Chemical Properties

| | |
|------------|------------------------|
| Appearance | Physical State: liquid |
| | Colour: colourless |
| | Odour: characteristic |

| Property | Value | At Temperature or Pressure |
|----------|-------|----------------------------|
|----------|-------|----------------------------|

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|---------------------------------------|---------------------------|-------------|
| pH | neutral | |
| BP/BP Range | not determined | |
| MP/MP Range | N/A | |
| Flash Point | N/A | |
| Flammability | not flammable | |
| Explosive Properties | Product is not explosive. | |
| SG/Density | 1.03 g/cm ³ | 20°C (68°F) |
| Solubility in/Miscibility in water | completely miscible | 20°C (68°F) |

10 - Stability and Reactivity

Conditions to Avoid: No decomposition in regulated use.

Hazardous Reactions: No hazardous reactions known.

Hazardous Decomposition Products: Not known.

11 - Toxicological Information

ACUTE TOXICITY:

PRIMARY IRRITATION EFFECT:

on the skin: No irritation effect.

on the eyes: Irritation effect.

Sensitization: No sensitizing effect known.

Additional Toxicity Information: When handled correctly and used as intended, the product causes no harmful effects according to our experience and the available information. According to EC-lists in latest relevant version labelling of the preparation is not required.

12 - Ecological Information

GENERAL INFORMATION

In general low hazardous to water.

OTHER INFORMATION TO ECOLOGY

If handling and use appropriate no ecological problems to be expected.

13 - Disposal Considerations

Chemicals, which arise as rest materials are normally special waste. Their disposal is regulated by the waste laws of the federal government and of the states, as well as the relevant ordinances issued on this. Contact the responsible agency (authority or waste disposal company), who will provide information on the disposal of special waste.

14 - Transport Information

TRANSPORT/FURTHER INFORMATION

The product is not regulated for transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

The substance does not require labelling according to EC lists or other known literature sources.

The product does not require labelling according to EC directives/Hazardous goods regulations.

The conventional precautionary measures in handling chemicals must be followed.

16 - Other Information

Our information in the Material Safety Data Sheets and our information of technical applications and regulations are based to the best of our knowledge.

Application and use of our products is outside of our control opportunities and therefore rest solely in the responsibility of the user.

However if liability should be considered it is limited for all damages to the value of our delivered consignment. Of course we guarantee for proper quality of our products according to our General sales- and delivery conditions.