

according to Regulation (EC) No. 1907/2006 (REACH)

Electrolyte AE 20

Material number 22.020

Date of print:20/03/2014Revision date:06/10/2010Date of first version:20/10/2006

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Name of product:

Electrolyte AE 20

Use of the substance / preparation

Electrolytic marking technology / Application for stainless low- & high alloy steels, large etching surfaces, special dark on hardened steels

Company / undertaking identification

Company name:	Schilling Marking Systems GmbH
Street/POB-No.:	In Grubenaecker 1
State/city/postal code:	DE-78532 Tuttlingen Germany
World Wide Web:	www.schilling-marking.de
Email:	info@schilling-marking.de
Telephone:	+49 (0)7461 9472-17
Telefax:	+49 (0)7461 9472-29
Dept. responsible for inform	nation:
	Herr Andreas Schilling,
	Telephone: +49 (0)7461 9472-15, Email: info@schilling-marking.de

Emergency telephone number

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

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

2. Hazards identification

Classification

Product is classified and labelled in accordance with Directive 1999/45/EC as amended.

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

Critical hazard to man and environment:

Electrolytic vapours may form during the electrochemical process. The following applies to Lactic acid and Sodium-Isoalkylsulfate in general: Irritant. Risk of serious damage to eyes.

A corrosive effect cannot be ruled out because of the pH value.

3. Composition/information on ingredients

Chemical characterization (preparation)

mixture of water/mineral salt and complexing agent

CAS-No.	EINECS/ELINCS	Chemical name	Content	Classification
79-33-4	201-196-2	Lactic acid	1-5 %	Xi; R 38, 41
126-92-1	204-812-8	Sodium-Isoalkylsulfate	1-10 %	Xi; R 38, 41

4. First aid measures

Following inhalation:	Provide fresh air. In case of respiratory difficulties seek medical attention.
After skin contact:	Change contaminated clothing. Remove residues with water.
	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. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink large quantities of water.
	If you feel unwell, seek medical advice.



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5. Fire fighting measures

Suitable extinguishing m	edia:
	Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.
Special exposure hazard	Is arising from the preparation itself, combustion products, resulting gases:
	In the event of a fire, the following may be produced when the water evaporates: Carbon monoxide and carbon dioxide.
Special protective equipr	
	Wear self-contained breathing apparatus.
Additional information:	Do not allow fire water to penetrate into surface or ground water.
	6. Accidental release measures
Personal precautions: Environmental precaution	Avoid contact with eyes. Provide adequate ventilation.

Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains. Methods for cleaning up: Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

7. Handling and storage

Handling

Information for safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid contact with eyes. Do not breathe vapour or spray. Do not mix with other chemicals.

Storage

Requirements for storerooms and containers:

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Keep container tightly closed and dry. Store at room temperature.

Storage class:

8. Exposure controls / Personal protection equipment

Exposure controls

Provide good ventilation and/or an exhaust system in the work area. See also information in chapter 7, section storage.

Occupational exposure controls

Respiratory protection:	If vapours form, use respiratory protection. Combination filter according to EN 141.
Hand protection:	Protective gloves according to EN 374.
	Glove material: Nitrile rubber - Breakthrough time: >480 min.
	Observe glove manufacturer's instructions concerning penetrability and breakthrough
	time.
Eye protection:	Tightly sealed safety glasses according to EN 166.
Skin protection:	Wear suitable protective clothing.
General protection and hy	giene measures:
	Change contaminated clothing.
	Wash hands before breaks and at the end of work.
	Provide a conveniently located eye rinse station.



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9. Physical and chemical properties

Appearance

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

Important health, safety and environmental information

Flash point / flash point range:	
Density:	
pH value:	
Solubility in water:	

not combustible at 20 °C: 1,03 g/ml 1,5-2,5 at 20 °C: fully miscible

10. Stability and reactivity

Conditions to avoid:	Do not mix with other chemicals.	
Materials to avoid:	strong acids and alkalis	
Hazardous decomposition products:		
	In the event of a fire, the following may be produced when the water evaporates:	
	Carbon monoxide and carbon dioxide.	
Additional information:	Product is stable under normal storage conditions.	

11. Toxicological information

Toxicological Tests:

After skin contact:	May cause irritations.
After eye contact:	The following applies to Lactic acid and Sodium-Isoalkylsulfate in general:
	Irritant. Risk of serious damage to eyes.

12. Ecological information

Ecotoxicity

Water Hazard Class: 1 = mild water pollutant

Additional ecological information

General information: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product	
Waste key number	 110198* = 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:	Smaller amounts: Product can be released into the sewage system.

Contaminated packaging

Waste key number	150102 = plastic packaging
Recommendation:	Waste disposal according to official state regulations.
	Cleaned containers may be recycled.



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14. **Transport information Overland transport (ADR/RID)** Not restricted Product designation: Transport by sea (IMDG) Proper shipping name: Not restricted Air transport (IATA) Proper shipping name: Not restricted Additional information Not a hazardous material with respect to transportation regulations. 15. **Regulatory information** Classification Code letter and hazard symbol: not applicable not applicable R phrase(s): S 24/25 Avoid contact with skin and eyes. S phrase(s): **National regulations National regulations - Germany** Storage class: 12 1 = mild water pollutant Water Hazard Class: Information on working limitations: Observe employment restrictions concerning young persons. National regulations - USA Hazard rating systems NFPA Hazard Rating: HMIS Version III Rating: Health: 1 (Slight) Health: 1 (Slight) Fire: 0 (Minimal) Flammability: 0 (Minimal) Reactivity: 0 (Minimal) Physical Hazard: 0 (Minimal) Personal Protection: X = Consult your supervisor

16. Other information

Further remarks

R phrase(s):

R 38 = Irritating to skin.

R 41 = Risk of serious damage to eyes.

Group that issues data sheet

Contact person: see chapter 1, department responsible for information.

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.