

Printing date: 01.10.2004

Reviewed on:

### 1 Identification of substance

- Product details

- Trade name: Electrolyte 72

- Manufacturer/Supplier: Östling Markiersysteme GmbH  
Broßhauserstraße 27  
D- 42697 Solingen  
Germany

- Informing department: Tel.0049 (0)212 26 96 0  
Fax. 0049 (0)212 26 96 199

- Emergency information: Safety Department

### 2 Composition/Data on components:

preparation of anorganic and organic substances with oxidizing effect based on mineral water matrix

- Chemical characterization:  
CAS No. Designation: 7632-00-0risk-phase R 25

- Identification number (s) :  
- EINECS Number::  
- EG Number:

### 3 Hazards identification

- Hazard designation: Xn unhealthy

- Information pertaining to particular dangers for man and environment:

### 4 First aid measures

- After inhalation: supply fresh air

- After skin contact: after work rinse with water

- After eye contact: rinse opened eye for several minutes with copious amounts of running water

- After swallowing: rinse out mouth and drink copious amounts of water  
induce vomiting and consult doctor

### 5 Fire fighting measures

- Suitable extinguishing agents: non-combustible

- For safety reasons unsuitable extinguishing agents: extinguishing powder with ammonium salts

- Special hazards caused by the material, its products of combustion or flue gases: unknown

- Protective equipment: VOID

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<b>6 Accidental release measures</b>				
- Person-related safety precautions:		wash hands after work and before breaks		
- Measures for environmental protection:		no special measures required		
- Measures for cleaning/collecting:		absorb with liquid-binding material (saw-dust, paper, etc.)		
<b>7 Handling and storage</b>				
- Handling:				
- Information for safe handling:				
- Information about protection against explosions and fires:				
- Storage:				
- Requirements to be met by storerooms and containers:		keep container tightly sealed		
- Information about storage in one common storage facility:		non-combustible; no special requirements required		
- Further information about storage conditions:		store away from acidic agents		
<b>8 Exposure controls and personal protection</b>				
- Additional information about design of technical systems:				
- Components with critical values that require monitoring at the workplace: no further data				
CAS No.	Designation of material	Type	Value	Unit
- Additional information: no further data				
- Personal protective equipment:				
- General protective and hygienic measures:		room must be well-ventilated		
- Breathing equipment:		N/A		
- Protection of hands:		N/A		
- Eye protection:		N/A		
- Body protection:		N/A		

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**9 Physical and chemical properties:**

- Form: fluid
- Colour: transparent
- Smell: odorless

- Change in condition: N/A
- Melting point/Melting range: N/A
- Boiling point/Boiling range: N/A

- Flash point: not determined
- Ignition temperature: not combustible
- Danger of explosion: product is non-explosive

- Critical values for explosion: N/A
- Lower:
- Upper:

- Steam pressure: N/A

- Density:

- Solubility in / Miscibility with:
- Water: 100%

- pH-value: 6,5

- Viscosity:
- dynamic:

	Value/Range	Unit	Method
- Change in condition:	N/A		
- Melting point/Melting range:	N/A		
- Boiling point/Boiling range:	N/A		

**10 Stability and reactivity**

- Conditions to be avoided: >380 degrees Celcius; no acids, ammonium salts, amines
- Dangerous reactions: reaction with acids, do not mix with other chemicals
- Dangerous products of composition: with acids reaction to nitrous fumes

**11 Toxicological information**

- Acute toxicity: VOID
- LD/LC50 values that are relevant for classification:

Components	Type	Value	Species
- Primary irritant effect:	no irritant effects known		
- on the skin:			
- on the eye:			
- Sensitization:	no sensitizing effect		
- Additional toxicological information:	hypotensive; danger of methaemoglobin forming		

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### **12 Ecological information**

- Information about elimination ( persistence and degradability ):
- Degree of elimination:
- Other information:
- Ecotoxicological effects:
- Aquatic toxicity :       WGK 1 slightly hazardous for water
- Type of test Effective concentration Method Assessment:
- General notes:           do not allow product to reach ground water, water bodies, or sewage system without pretreatment; complication of decomposition activity of adapted activated sludge are not expected

### **13 Disposal considerations**

- Product:                 Electrolyte
- Recommendation:       the ordinances applicable to disposal in your area are to be strictly adhered to
  
- Waste disposal key number: 52720
  
- Uncleaned packagings:
- Recommendation:       packaging should be emptied and thoroughly cleaned before re-use

### **14 Transport information N/A**

- ADR/RID-GGVS/E Class:
- Number/Letter:
- Kemler Number:
- UN-Number:
  
- Maritime transport IMDG/GGVSea:
- IMDG/GGVSea Class:
- Page:
- UN Number:
- Packaging group:
- EMS Number:
- MFAG:
- Marine pollutant:
  
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class:       no specific guidelines regarding transport;  
no hazardous materials ordinances applicable
- UN/ID Number:
- Packaging group:

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**15 Regulatory information**

- Designation according to EC guidelines: The product is classified and characterized under EC directives and the ordinance on hazardous materials
- Code letter and hazard designation of product:
- Risk phrases: 25 poisonous if swallowed
- Safety phrases: 45 contact physician as necessary
- National regulations:
- Technical instructions ( air ):  
Class Share in %
- Water hazard class: WGK 1

**16 Other information**

These statements solely describe the safety demands of the product and base according to the best of our belief on our today's knowledge. They, however, do not represent any assurance towards properties of the product within the sense of liability, resp. guaranty regulations and thus are given without any obligation.

- Department issuing data specification sheet: product safety
- Contact: Rolf Östling