

## Material Safety Data Sheet

Date Printed: 26/09/2007

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According to 2001/58/EC

**1 - Product and Company Information**

Product Name            Neutralyte N 1  
Product Number         22.101

**Use of the substance/preparation**

After treatment Electrolytic marking, Neutralization and removal of salty residues after electrolytic marking process.

Company                   SCHILLING Marking Systems GmbH  
                              In Grubenaecker 1  
                              DE-78532 Tuttlingen  
                              Germany  
Technical Phone #        +49 (0)7461-9472-17  
Fax                        +49 (0)7461-9472-29  
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**

*Full text of risk phrases appearing in section 2: see section 16.*

INDEX	CAS	EC	Name	Symb.	R:	%
	497-19-8	207-838-8	Sodium carbonate	Xi	36	1<=x%<10

Chemical characterisation:    Agent:  Preparation:

Description:                Aqueous preparation of alkaline inorganic substances with surfactant for Neutralization.

**3 - Hazards Identification****SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT**

Causes burns (R34).

**4 - First Aid Measures****GENERAL**

Remove contaminated clothing. Launder clothing before reuse. Seek medical attention if irritation develops and persists.

**AFTER EYE CONTACT**

Immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the eyelids to ensure thorough rinsing. Seek medical attention.

**AFTER SKIN CONTACT**

Clean exposed skin with warm soapy water.

**AFTER INGESTION**

If swallowed, **DO NOT** induce vomiting. Drink a large volume of cold water or milk and get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

**AFTER INHALATION**

Remove person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If irritation develops and persists, seek medical attention.

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**5 - Fire Fighting Measures**

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Not applicable due to aqueous formulation.

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**6 - Accidental Release Measures**

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**PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL**

Avoid contact with eyes and skin.

**ENVIRONMENTAL MEASURES**

Prevent the product from entering the sewage system, the soil and ground water.

**REMOVAL**

Dilute with a large amount of water and collect.

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**7 - Handling and Storage**

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**HANDLING**

Open bottle carefully.

**SAFE HANDLING**

Neutrallyte must not be mixed with other chemicals.

**NOTES ON FIRE AND EXPLOSION PROTECTION**

The product itself is not flammable.

**STORAGE****REQUIREMENTS FOR STORAGE AREAS AND CONTAINERS**

Prevent substance from penetrating the soil.

**NOTES ON STORING WITH OTHER GOODS**

Do not store together with food and feed.

**ADDITIONAL INFORMATION ON STORAGE CONDITIONS**

Keep container in a well ventilated place.

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**8 - Exposure Controls / Personal Protection**

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**EXPOSURE LIMITS**

N/A

**ENGINEERING CONTROLS**

Fresh water supply. Safety shower and eye bath.

**GENERAL HYGIENE MEASURES**

Ensure that skin is cleaned and moisturized after work. Use of care of the skin is recommended. The conventional precautionary measures in handling chemicals must be followed.

**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection: Normally not needed in well-ventilated areas and in regulated use.

Eye Protection: Protective goggles.

Hand Protection: Compatible chemical-resistant gloves.

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**9 - Physical and Chemical Properties**

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Appearance

Physical State: liquid

Colour: clear

Odour: none

Property	Value	At Temperature or Pressure
pH	13.5 - 14.0	20°C (68°F)
BP/BP Range	approx. 100°C (212°F)	
MP/MP Range	approx. 0 to -7°C (32 to 19°F)	
Flash Point	N/A	
Flammability	N/A	
Explosive Properties	N/A	
Oxidizing Properties	N/A	
Vapour Pressure	N/A	
SG/Density	1.01 g/cm3	20°C (68°F)
Solubility in water	completely soluble	20°C (68°F)
Partition Coefficient:		
n-octanol-water	N/A	
Viscosity	N/A	
Vapour Density	N/A	
Evaporation Rate	N/A	

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## 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Materials to Avoid: Do not mix with strong acids.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: No decomposition in regulated use.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur.

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## 11 - Toxicological Information

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### TOXICITY INFORMATION

Irritating to eyes and skin. No harmful effects.

### ACUTE TOXICITY

Rat, oral LD50 [mg/kg]: No data available.

Rat, inhalation LC50 [mg/m3]: No data available.

Rat, dermal LD50 [mg/kg]: No data available.

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## 12 - Ecological Information

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**Ecological effects information:** No data available.

**Biodegradation [%]:** Product is biodegradable. (self-assessment)

**BOD-Value:** Not tested

**CSB-Value [mg/l]:** Not tested

**AOX:** Does not contain AOX.

**WGK class (Germany):** 1

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## 13 - Disposal Considerations

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### GENERAL

Chemicals, which arise as rest materials are normally special waste and must be disposed by an authorized disposal company only. Observe all federal, state, and local environmental regulations.

### INDUSTRIAL WASTE NUMBER

11 01 07 (Alkaline caustic solutions)

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## 14 - Transport Information

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### Ground Transport RID/ADR/DOT

UN#: 1824  
Hazard Identification Number: 80  
Class: 8 (Corrosive Substances), Limited Quantity\*  
PG: II/III (middle/slight Dangerousness)  
Shipping name: Sodium hydroxide, solution  
Labels: LQ 22 label required\*

### Ocean/River Transport IMDG

UN#: 1824  
Hazard Identification Number: 80  
Class: 8 (Corrosive Substances), Limited Quantity\*  
PG: II/III (middle/slight Dangerousness)  
Shipping name: Sodium hydroxide, solution  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Labels: LQ 22 label required\*

### Air Transport IATA

UN#: 1824  
Hazard Identification Number: 80  
Class: 8 (Corrosive Substances), Limited Quantity\*  
PG: II/III (middle/slight Dangerousness)  
Shipping name: Sodium hydroxide, solution  
Inhalation Packing Group I: No  
Labels: LQ 22 label required\*

**\*ADR/DOT/Ground Transport:** Limited quantities until 4 liters/composite container require LQ 22 labelling. **\*IATA/Air Transport:** Limited quantities until 1 liter/composite require LQ 22 labelling. Larger quantities/container cannot be shipped by limited quantities and would require labelling and UN certified packaging.

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## 15 - Regulatory Information

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### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C  
Corrosive  
R-PHRASES: 34  
Causes burns.  
S-PHRASES: 24/25-26-36/37/39-45  
Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### NATIONAL REGULATIONS

Employment Restriction: not approved  
Statutory order on hazardous incidents: not approved  
Classification accord. to VbF: N/A  
Technical Instructions on Air Quality: not approved  
German Water Pollution Class: WGK 1 - low hazardous to water (Self assessment according to VwVwS)

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**16 - Other Information**

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**List of relevant R phrases (heading 2):**

R36: Irritating to eyes.

**REVISION**

Previous release dt. 07.12.2005

Revised: all chapters

**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Schilling Marking Systems GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. Naturally we assure efficient quality of our products on the requirements of our General sales- and delivery conditions. Copyright (2006): Schilling Marking Systems GmbH. License granted to make unlimited paper copies for internal use only.

**DISCLAIMER**

Use is intended for neutralization after electrolytic marking process only. Not for household or other uses.