

## SAFETY DATA SHEET

### LÖDVATTEN 61100202

Last changed: 22/08/2012

Replaces date: 15/08/2006

Internal No: 61100202

#### 1 Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Trade name / designation LÖDVATTEN 61100202

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

##### 1.3 Details of the supplier of the safety data sheet

###### NATIONAL MANUFACTURER/IMPORTER

Enterprise STANNOL  
Address POSTFACH 201861  
Postal code D-42218 WUPPERTAL  
Country Tyskland  
E-mail werner.kruppa@stannol.de  
Telephone +49 202 5850

#### 2 Hazards identification

##### 2.1 Classification of the substance or mixture

DPD Classification: Xi; R36/38, N; R51/53

CLP Classification: Skin Irrit. 2H315, Eye Irrit. 2H319, Aquatic Chronic 2H411

Most important HSE hazard effects: Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

##### 2.2 Label elements



Signal word: None

EC-Label: No

##### COMPOSITION

ammonium chloride (< 1 %), Zinkchlorid (< 10 %)

###### H Statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

##### 2.3 Other hazards

#### 3 Composition/information on ingredients

##### 3.2 Mixtures

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| Ingredient name   | Reg.No | EC No.    | CAS No.    | Conc. (wt%) | DPD-Classification | CLP-classification                           |
|-------------------|--------|-----------|------------|-------------|--------------------|--|
| ammonium chloride |        | 235-186-4 | 12125-02-9 | < 1 %       | Xn,R22 - R36       | Acute Tox. 4 H302<br>Eye Irrit. 2 H319       |
| Zinkklorid        |        | 231-592-0 | 7646-85-7  | < 10 %      | C,N,R34 - R50/53   | Skin Corr. 1B H314<br>Aquatic Chronic 1 H410 |

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

#### 4 First aid measures

##### 4.1 Description of first aid measures

###### INHALATION

Fresh air. For breathing difficulties oxygen may be necessary.

###### INGESTION

Contact physician.

###### SKIN CONTACT

Wash skin with soap and water. Consult a doctor if symptoms should occur.

###### EYE CONTACT

Rinse immediately with plenty of water. Splash in eye requires examination by eye specialist.

##### 4.2 Most important symptoms and effects, both acute and delayed

###### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation of smoke may cause irritation of the respiratory tract. At high concentrations, may cause smarting, coughing and breathing difficulties.

##### 4.3 Indication of any immediate medical attention and special treatment needed

###### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

#### 5 Fire-fighting measures

##### 5.1 Extinguishing media

###### SUITABLE EXTINGUISHING MEDIA:

All common fire extinguishing agents may be used.

##### 5.2 Special hazards arising from the substance or mixture

###### SPECIAL HAZARDS

Fire causes formation of toxic gases.

##### 5.3 Advice for fire-fighters

###### ADVICE FOR FIREFIGHTERS

Use breathing apparatus. Use suitable protective gloves and protective clothes if there is risk of direct contact or splashing.

#### 6 Accidental release measures

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#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.2 Environmental precautions

#### 6.3 Methods and material for containment and cleaning up

#### 6.4 Reference to other sections

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

##### PRECAUTION FOR SAFE HANDLING

All handling to take place in well ventilated area. Avoid breathing fire vapours. Wash at the end of each work shift and before eating, smoking and using the toilet.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Store dry.

#### 7.3 Specific end uses

### 8 Exposure controls / Personal protection

#### 8.1 Control parameters

#### 8.2 Exposure controls

##### EYE PROTECTION

Use safety goggles and face shield in case of splash risk.

##### HAND PROTECTION

Use suitable protective gloves made of nitrile rubber.

##### RESPIRATORY PROTECTION

Use breathing apparatus in the event of insufficient ventilation.

### 9 Physical and chemical Properties

#### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Liquid. Not translated to English

**COLOUR** Colourless. Not translated to English

**ODOUR** Odourless.

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| Parameter                               | Value/unit | Method/reference | Observation |
|---|------------|------------------|-------------|
| pH concentrate                          | 4,2        |                  |             |
| pH in solution                          | No data    |                  |             |
| Melting point                           | No data    |                  |             |
| Freezing point                          | No data    |                  |             |
| Initial boiling point and boiling range | > 100 °C   |                  |             |
| Flash point                             | No data    |                  |             |
| Evaporation rate                        | No data    |                  |             |
| Flammability (solid, gas)               | No data    |                  |             |
| Flammability limits                     | No data    |                  |             |
| Explosion limits                        | No data    |                  |             |
| Vapour pressure                         | 20 mbar    |                  |             |
| Vapour density                          | No data    |                  |             |
| Relative density                        | No data    |                  |             |
| Partition coefficient                   | No data    |                  |             |
| Auto-ignition temprature                | No data    |                  |             |
| Decomposition temprature                | No data    |                  |             |
| Viscosity                               | No data    |                  |             |

### 9.2 Other safety information

| Parameter | Value/unit | Method/reference | Observation |
|-----------|------------|------------------|-------------|
| Density   | 1,099 g/ml |                  |             |

| Note no. | Comments |
|----------|----------|
|          |          |

## 10 Stability and Reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

#### CONDITIONS TO AVOID

Strong oxidizing agent. Strong acids. Strong alkalis.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products:

## 11 Toxicological information

### 11.1 Toxicological effects

| Zinkklorid        |               |            |         |        |
|-------------------|---------------|------------|---------|--------|
| Route of exposure | Exposure time | Value/unit | Species | Source |
| LD50 (Oral)       |               | 350 mg/kg  | Mus     |        |

## 12 Ecological information

### 12.1 Toxicity

#### ECOTOXICITY

Dangerous for the environment

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#### 12.2 Persistence and degradability

##### DEGRADABILITY

Not translated to English

#### 12.3 Bioaccumulative potential

##### ACCUMULATION

Not translated to English

#### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects

### 13 Disposal considerations

#### 13.1 Waste treatment methods

##### GENERAL REGULATIONS

Treat as dangerous waste. Local and EU regulations for refuse treatment must be followed.

### 14 Transport information

Classified as Dangerous Goods: Yes

#### Land transport (ADR/RID)

|                           |      |                            |     |
|---------------------------|------|----------------------------|-----|
| 14.1 UN-No.               | 3082 | 14.4 Packing group         | III |
| 14.2 Proper Shipping Name |      | 14.5 Environmental hazards |     |
| 14.3 Class(es)            | 9    |                            |     |
| Hazard label(s)           |      |                            |     |
| Hazard ID:                |      | Tunnel restriction code    |     |

#### Inland water ways transport (ADN)

|   |      |                            |     |
|---|------|----------------------------|-----|
| 14.1 UN-No.                               | 3082 | 14.4 Packing group         | III |
| 14.2 Proper Shipping Name                 |      | 14.5 Environmental hazards |     |
| 14.3 Class(es)                            | 9    |                            |     |
| Environmentally hazardous in tank-vessels |      |                            |     |

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#### Sea transport (IMDG)

|                             |      |                            |     |
|-----------------------------|------|----------------------------|-----|
| 14.1 UN-No.                 | 3082 | 14.4 Packing group         | III |
| 14.2 Proper Shipping Name   |      | 14.5 Environmental hazards |     |
| 14.3 Class(es)              | 9    |                            |     |
| Sub Risk:                   |      |                            |     |
| IMDG Code segregation group |      |                            |     |
| Marine pollutant            | Ja   |                            |     |
| EMS:                        |      |                            |     |

#### Air transport (ICAO-TI / IATA-DGR)

|                           |      |                            |     |
|---------------------------|------|----------------------------|-----|
| 14.1 UN-No.               | 3082 | 14.4 Packing group         | III |
| 14.2 Proper Shipping Name |      | 14.5 Environmental hazards |     |
| 14.3 Class(es)            | 9    |                            |     |
| Hazard label(s)           |      |                            |     |

### 15 Regulatory information

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

**15.2 Chemical Safety Assessment**

### 16 Other information

#### LIST OF RELEVANT R-PHRASES

|        |  |
|--------|--|
| R22    | Harmful if swallowed.  |
| R34    | Causes burns.  |
| R36    | Irritating to eyes.  |
| R36/38 | Irritating to eyes and skin.   |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.      |

#### LIST OF RELEVANT H-STATEMENTS

|      |   |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H314 | Causes severe skin burns and eye damage.              |
| H315 | Causes skin irritation.                               |
| H319 | Causes serious eye irritation.                        |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |