

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**LZW9900.99 TISAB III**

Revision date: 01.09.2016

Product code: LZW9900.99

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

LZW9900.99 TISAB III

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Water analysis

**1.3. Details of the supplier of the safety data sheet**

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

**1.4. Emergency telephone number:**

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Potassium nitrate

Potassium hydrogen phthalate

**Signal word:** Warning**Pictograms:****Hazard statements**

H319

Causes serious eye irritation.

**Precautionary statements**

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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P337+P313 If eye irritation persists: Get medical advice/attention.

**Additional advice on labelling**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

| CAS No    | Chemical name                         | Quantity |          |        |
|-----------|---------------------------------------|----------|----------|--------|
|           | EC No                                 | Index No | REACH No |        |
|           | GHS Classification                    |          |          |        |
| 7732-18-5 | Water                                 |          |          | > 85 % |
|           | 231-791-2                             |          |          |        |
| 7757-79-1 | Potassium nitrate                     |          |          | < 10 % |
|           | 231-818-8                             |          |          |        |
|           | Ox. Sol. 3, Eye Irrit. 2; H272 H319   |          |          |        |
| 877-24-7  | Potassium hydrogen phthalate          |          |          | < 10 % |
|           | 212-889-4                             |          |          |        |
|           | Acute Tox. 4, Eye Irrit. 2; H312 H319 |          |          |        |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Take off all contaminated clothing immediately.

**After inhalation**

Move to fresh air.

**After contact with skin**

Wash off immediately with plenty of water.

**After contact with eyes**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water.

**4.2. Most important symptoms and effects, both acute and delayed**

irritant effects

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

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

Fire may liberate hazardous vapours.

#### **5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### **Additional information**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

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

Use personal protective equipment.

#### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

#### **6.4. Reference to other sections**

13. Disposal considerations

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Use only in well-ventilated areas.

##### **Advice on protection against fire and explosion**

See also section 5

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

##### **Requirements for storage rooms and vessels**

Keep in a dry, cool place.

##### **Hints on joint storage**

None known.

#### **7.3. Specific end use(s)**

Reagent for analysis

### SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

##### **Additional advice on limit values**

None known.

#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

##### **Protective and hygiene measures**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

##### **Eye/face protection**

Safety glasses with side-shields

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**Hand protection**

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact:

Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: &gt;480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: &gt; 30 min

**Skin protection**

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                      |                |
|----------------------|----------------|
| Physical state:      | liquid         |
| Colour:              | colourless     |
| Odour:               | characteristic |
| pH-Value (at 25 °C): | 5              |

**Changes in the physical state**

|                                          |                   |
|------------------------------------------|-------------------|
| Melting point:                           | 0 °C              |
| Initial boiling point and boiling range: | 100 °C            |
| Sublimation point:                       | not applicable    |
| Softening point:                         | not applicable    |
| Pour point:                              | not applicable    |
| :                                        | no data available |
| Flash point:                             | not applicable    |
| Sustaining combustion:                   | No data available |

**Flammability**

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

**Explosive properties**

not applicable

|                         |                   |
|-------------------------|-------------------|
| Lower explosion limits: | not applicable    |
| Upper explosion limits: | not applicable    |
| Ignition temperature:   | no data available |

**Auto-ignition temperature**

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

|                            |                   |
|----------------------------|-------------------|
| Decomposition temperature: | no data available |
|----------------------------|-------------------|

**Oxidizing properties**

not applicable

|                     |                        |
|---------------------|------------------------|
| Vapour pressure:    | no data available      |
| Vapour pressure:    | no data available      |
| Density (at 20 °C): | 1,05 g/cm <sup>3</sup> |
| Bulk density:       | not applicable         |
| Water solubility:   | soluble                |

**Solubility in other solvents**

no data available

|                        |                   |
|------------------------|-------------------|
| Partition coefficient: | no data available |
|------------------------|-------------------|

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|                          |                   |
|--------------------------|-------------------|
| Viscosity / dynamic:     | no data available |
| Viscosity / kinematic:   | no data available |
| Flow time:               | no data available |
| Vapour density:          | no data available |
| Evaporation rate:        | no data available |
| Solvent separation test: | no data available |
| Solvent content:         | no data available |

#### 9.2. Other information

|                   |                |
|-------------------|----------------|
| Solid content:    | not applicable |
| no data available |                |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

See also section 10.3

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

#### Further information

None known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

No data is available on the product itself.

Health injuries are not known or expected under normal use.

| CAS No    | Chemical name                |               |         |            |        |
|-----------|------------------------------|---------------|---------|------------|--------|
|           | Exposure route               | Dose          | Species | Source     | Method |
| 7757-79-1 | Potassium nitrate            |               |         |            |        |
|           | oral                         | LD50<br>mg/kg | 3015    | Ratte      |        |
| 877-24-7  | Potassium hydrogen phthalate |               |         |            |        |
|           | oral                         | LD50<br>mg/kg | 3200    | rat        | RTECS  |
|           | dermal                       | LD50<br>mg/kg | >1000   | guinea pig |        |

##### Irritation and corrosivity

May cause eye irritation.

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#### Sensitising effects

Contains no substance or substances classified as sensitising.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

#### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Aspiration hazard

No aspiration toxicity classification

#### Specific effects in experiment on an animal

No data is available on the product itself.

#### Additional information on tests

no data available

#### Practical experience

#### Observations relevant to classification

no data available

#### Other observations

no data available

#### Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12: Ecological information

### 12.1. Toxicity

No data is available on the product itself.

Ecological injuries are not known or expected under normal use.

| CAS No    | Chemical name            |      |           |         |                     |        |
|-----------|--------------------------|------|-----------|---------|---------------------|--------|
|           | Aquatic toxicity         | Dose | [h]   [d] | Species | Source              | Method |
| 7757-79-1 | Potassium nitrate        |      |           |         |                     |        |
|           | Acute fish toxicity      | LC50 | 191 mg/l  | 96 h    | Poecilia reticulata |        |
|           | Acute crustacea toxicity | EC50 | 490 mg/l  | 48 h    | Daphnia magna       |        |

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

No data is available on the product itself.

#### Partition coefficient n-octanol/water

| CAS No   | Chemical name                | Log Pow |
|----------|------------------------------|---------|
| 877-24-7 | Potassium hydrogen phthalate | -2,73   |

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

No known effect.

#### Further information

no data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Disposal recommendations**

In accordance with local and national regulations.

##### **List of Wastes Code - residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

##### **List of Wastes Code - used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

##### **List of Wastes Code - contaminated packaging**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

##### **Contaminated packaging**

Dispose of as unused product.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

##### **Other applicable information (land transport)**

Not subject to transport regulations.

#### **Inland waterways transport (ADN)**

##### **Other applicable information (inland waterways transport)**

Not tested

#### **Marine transport (IMDG)**

##### **Other applicable information (marine transport)**

Not subject to transport regulations.

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

##### **Other applicable information (air transport)**

Not subject to transport regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

no data available

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

##### **Other applicable information**

no data available

### SECTION 15: Regulatory information

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

##### **National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

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**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

Revision: 01.09.2016

Safety datasheet sections which have been updated: 1-16

**Relevant H and EUH statements (number and full text)**

|      |                                |
|------|--------------------------------|
| H272 | May intensify fire; oxidiser.  |
| H312 | Harmful in contact with skin.  |
| H319 | Causes serious eye irritation. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*