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**MATERIAL SAFETY DATA SHEET**

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

Product name: Testing Solution No. 79

Zinc Sulphate (0.1 mol/l (0.1 N) in aqueous solution

Product Number:

- ☐ TS79
- ☐ 129196150
- ☐ 129196144

Brand: Solmedia Ltd

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

Identified uses: Test reagent

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

- Name of Supplier: Solmedia Ltd.
- Address of Supplier: Unit 2, Vernon Drive  
Battlefield Enterprise Park  
Shrewsbury  
SY1 3TF  
UK
- Telephone: 0844 80 80 900
- Email: labsupplies@solmedialtd.com

**1.4 Emergency telephone number**

Emergency Phone # +44 (0)844 80 80 900

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**SECTION 2: Hazards identification 2.1 Classification of the substance or mixture**

Hazard classes and hazard categories	Hazard Statements
Hazardous to the aquatic environment Chronic Category 2	H411

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 (CLP)



Signal word: Warning

Hazard Statements	
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements	
P273	Avoid release to the environment

### 2.3 Other hazards

SVHC No

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

#### Hazardous ingredients Classification according to Regulation (EC) 1272/2008 (CLP)

Substance Name: Zinc sulphate

Concentration: 1- 2.5%

Product Identifier: CAS No. 7733-02-0, EC No. 231-793-3, REACH No. xxxx

Hazard classes and hazard categories: Acute Tox. 4 oral H302, Serious Eye Damage 1 – H318, Hazardous to the Aquatic environment Aquatic Chronic 1 –H410

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If exposed or if you feel unwell: Call a Poison Centre or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give by mouth to an unconscious person or a person with cramps. Change contaminate, saturated clothing. Do not leave affected person unattended.

#### If inhaled

Call a Poison Centre/doctor. If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash immediate off with soap and plenty of water. Remove contaminate, saturated clothing immediately. In the case of skin reactions, consult a physician.

**In case of eye contact**

Flush eyes immediately with plenty of flowing water for 10 to 15 minutes holding eyelids and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water and immediately obtain medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**4.4 Self-protection of the first aider**

First aider: pay attention to self-protection!

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

The product itself does not burn

Co-ordinate fire-fighting measures to the fire surroundings

**Extinguish media which must not be used for safety reasons**

No restriction

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

In case of fire may be liberated:

Pyrolysis products, toxic

**5.3 Advice for firefighters**

DO NOT fight fire when fire reaches explosives

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing

#### 5.4 Further information

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases

Use water spray jet to protect personnel and to cool endangered containers. In

case of fire: Evacuate area

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### SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas.

In case of major fire and large quantities: Remove persons to safety

For personal protection see section 8.

#### 6.2 Environmental precautions

Discharge into the environment must be avoided

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

Keep in suitable, closed containers for disposal. Spilled product must never be returned to the original container for recycling.

#### 6.4 Reference to other sections

Clear Spills immediately

For disposal see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation skin contact, eye contact, use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original container.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection 8.1 Control parameters**

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

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

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### **8.2.2 Personal protective equipment**

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

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommend glove articles DIN-/EN-NORMS: DIN EN 374 in the case of wanting to use the gloves again, clean them before taking off and air them well.

##### **Body Protection**

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

##### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus: Full/half/quarter face masks (DIN136/140)

Control of environmental exposure

##### **Additional Informational Information**

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label conspicuously.

#### **8.2.3 Environmental exposure controls**

No data available

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

a) Appearance Form: liquid, clear

Colour: no data available

- b) Odour No data available
- c) Odour Threshold No data available **Safety relevant basis data**
- d) pH No data available
- e) Melting point/freezing point  
No data available
- f) Initial boiling point and boiling range  
No data available
- g) Flash point not applicable
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits  
No data available
- k) Vapour pressure No data available
- l) Vapour density – 23 hPa (20C)
- m) Relative density 1.000 g/cm<sup>3</sup>
- n) Water solubility No data available
- o) Partition coefficient: n-octanol/water  
No data available
- p) Auto-ignition temperature  
No data available
- q) Decomposition temperature  
No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

## 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

## **10.2 Chemical stability**

Stable under recommended storage conditions.

## **10.3 Possibility of hazardous reactions**

No data available

## **10.4 Conditions to avoid**

No data available

**Incompatible**

**materials**

No data available

## **10.6 Hazardous decomposition products**

No data available

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

**Acute toxicity**  
No data available

**Skin corrosion/irritation**

Primary irritation to the skin

**Serious eye damage/eye irritation**

Causes serious eye irritation

**Respiratory or skin sensitisation**

In case of skin contact: not sensitising. After inhalation: not sensitising

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

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**SECTION 12: Ecological information 12.1 Toxicity**

**Fish toxicity:** Zinc sulphate monohydrate – LC50: 4mg/l (96 h)

**Daphnia toxicity:** Zinc sulphate monohydrate – EC50: 0.79 mg/l (48 h)

Zinc sulphate monohydrate – LC50: 1.2 mg/l (48 h)

Algae toxicity: Zinc sulphate monohydrate – EC50: 0.22 mg/l (72 h)

**Bacteria toxicity:** no data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water: no data available

**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 data available

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**SECTION 13: Disposal considerations 13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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## **SECTION 14: Transport information**

No dangerous goods in sense of this transport regulation

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## **SECTION 15: Regulatory information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 as amended by Regulation (EU) 2015/830.

### **15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

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## **SECTION 16: Other information**

Further information

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. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.