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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. 14

Sulphuric Acid 50%

Product Number:

- TS14
- 129116150

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

**Classification under CLP:** Regulation (EC) No. 1272/2008 [CLP]

H314 SKIN CORROSION CATEGORY 1A

#### 2.2 Label elements

##### Hazard Statements:

H314 causes severe skin burns and eye damage

**Signal word:** Danger

**Hazard pictograms:**



**Precautionary statements:**

**P280:** wear protective gloves/protective clothing/eye protection/face protection.

**P301+330+331:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P308+P310:** Immediately call a POISON CENTER or doctor

**2.3 Other hazards**

**SVHC:** NO

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Chemical identity:** SULPHURIC ACID

**CAS number:** Not yet communicated down the supply chain

**EINECS number:** Not yet communicated down the supply chain

Skin corrosion, category 1A - H314 Hazardous to the aquatic environment, acute, category 1 - H400

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

**IF exposed:** Immediately call a POISON CENTRE/doctor/.... If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

**After inhalation** Immediately call a POISON CENTRE/doctor/.... Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

**In case of skin contact** After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

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

**In case of ingestion** Immediately call a POISON CENTRE/doctor/.... Do NOT induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

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

No data available.

#### **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!

#### **4.5 Information to physician**

Show this SDS sheet.

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing 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. In case of fire: Wear self-contained breathing apparatus.

#### **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 caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

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### **SECTION 6: Accidental release measures**

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

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

#### **6.2 Environmental precautions**

Discharge into the environment must be avoided.

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

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

### 6.4 Reference to other sections

Clear spills immediately.

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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.

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

Storage temperature: 15-25 °C

Storage class: 8B

Keep in a cool, well-ventilated place

### 7.3 Specific end use(s)

No other specific uses stipulated other than the uses mentioned in section 1.2.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Sulphuric Acid – Gestis – UK – LTV – (1)mg/m<sup>3</sup>

### 8.2 Exposure controls

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of workday.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with application laws and good laboratory practises. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact. Material: Fluorinated rubber. Min Layer Thickness: 0.7mm. Break Through

Time: 8hrs. For splash contact use Nitrile rubber gloves with a minimum thickness layer of 0.2mm, and a break through time of 30 mins. If used in solution, or mixed with substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

**Eye protection:** Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental:** Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

(a) Appearance Physical state: liquid Colour: colourless

(b) Odour: no data available

(c) Odour threshold: no data available

#### Safety relevant basic data

(d) pH: 100 °C (1013 hPa)

(e) Melting point/freezing point: no data available

(f) Initial boiling point and boiling range: >100 °C (1013 hPa)

(g) Flash point: no data available

(h) Evaporation rate: no data available

(i) Flammability (solid, gas): not applicable

(j) Upper/lower flammability or explosive limits Lower explosion limit: no data available  
Upper explosion limit: no data available

(k) Vapour pressure: no data available

(l) Vapour density: no data available

(m) Relative density: 1.1 - 1.4 g/cm<sup>3</sup> (20 °C)

(n) Solubility(ies) at 20 °C: easily soluble Soluble (g/L) in: 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 Kinematic viscosity: no data available Dynamic viscosity: no data available

(s) Explosive properties: not applicable

(t) Oxidising properties: not applicable

## 9.2 Other safety information

Bulk density: no data available Refraction index: no data available Dissociation constant: no data available Surface tension: no data available Henry constant: no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Corrosive to metals

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Explosive reaction with: Alkali metals Alkaline earth metal Violent reaction with: Alkali (lye) light metals powdered metals

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

**Materials to avoid:** Metal, base

### 10.6 Hazardous decomposition products

Other decomposition products - No data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute effects** **Acute oral toxicity:** no data available

**Acute dermal toxicity:** no data available

**Acute inhalation toxicity:** no data available

**Irritant and corrosive effects** Primary irritation to the skin: Causes severe skin burns and eye damage.

**Irritation to eyes:** Causes serious eye damage.

**Irritation to respiratory tract:** not applicable

**Respiratory or skin sensitisation** In case of skin contact: not sensitising

**After inhalation:** not sensitising STOT-single exposure not applicable STOT-repeated exposure not applicable

**CMR effects** (carcinogenicity, mutagenicity and toxicity for reproduction)

**Carcinogenicity** No indication of human carcinogenicity.

**Germ cell mutagenicity** No indications of human germ cell mutagenicity exist.

**Reproductive toxicity** No indications of human reproductive toxicity exist.

**Aspiration hazard** not applicable

**Other adverse effects** no data available

**Additional information** no data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Ecotoxicity values:

**Acute (short-term) fish toxicity:** no data available

**Chronic (long-term) fish toxicity:** no data available

**Acute (short-term) daphnia toxicity:** no data available

**Chronic (long-term) daphnia toxicity:** no data available

**Acute (short-term) algae toxicity:** no data available

**Chronic (long-term) algae 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**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Disposal of packaging:** Dispose of as unused product. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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**SECTION 14: Transport information**

Land transport (ADR/RID)

**14.1 UN-No.:** 2796

**14.2 Proper Shipping Name:** SULPHURIC ACID

**14.3 Class(es):** 8 Classification code: C1 Hazard label(s): 8

**14.4 Packing group:** II 14.5 Environmental hazards: No

**14.6 Special precautions for user:** Hazard identification number (Kemler No.): 80 tunnel restriction code: E (Passage forbidden through tunnels of category E.)

Sea transport (IMDG)

**14.1 UN-No.:** 2796

**14.2 Proper Shipping Name:** SULPHURIC ACID

**14.3 Class(es):** 8 Classification code: Hazard label(s): 8

**14.4 Packing group:** II

**14.5 Environmental hazards:** No MARINE POLLUTANT: No

**14.6 Special precautions for user:** Segregation group: 1 EmS-No. F-A S-B

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** not relevant

Air transport (ICAO-TI / IATA-DGR)

**14.1 UN-No.:** 2796

**14.2 Proper Shipping Name:** SULPHURIC ACID

**14.3 Class(es):** 8 Classification code: Hazard label(s): 8

**14.4 Packing group:** II

**14.5 Special precautions for user** not relevant

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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.

Water hazard class (WGK): slightly hazardous to water (WGK 1)

## 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.