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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 57

Product Code: TS57

CAS-No. 7722-84-1

Brand: Solmedia Ltd

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

Identified uses	Testing Reagent
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#### 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 (REGULATION (EC) No 1272/2008)

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

#### 2.2 Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### 2.3 Other hazards

**PBT:** This substance is not identified as a PBT substance.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

#### Hazardous ingredients:

Hydrogen peroxide

Concentration	Product identifier	Hazard classed & hazard categories
2-4%	CAS No.: 7722-84-1	Ox. Liq. 1 – H271
	EC No.: 231-765-0	Acute Tox. 4 – H302+H332
	REACH No.:	Skin Corr. 1A – H314
	01-2119485845-22-XXXX	

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. 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

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### 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

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. 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**

No data available

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

#### **5.1 Extinguishing media**

Suitable extinguishing media for the surrounding fire should be used.

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.

Special protective equipment for firefighters.

Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional 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**

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 Additional information

Clear spills immediately.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. 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. Protect from moisture.

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

Recommended storage temperature: 15-25°C

Storage class: 10-13

Keep container tightly closed and in a well-ventilated place. Keep/store away from combustible materials. Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Container should not be closed gas-tight.

### 7.3 Specific end use(s)

**Specific end use(s):** No data available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredient	Regulatory Information	Country	Limit value type (country of origin)	Limit value
Hydrogen peroxide	Gestis	UK	LTV	1,4mg/m <sup>3</sup> - 1 ppm
Hydrogen peroxide	Gestis	UK	STV	2,8mg/m <sup>3</sup> - 2 ppm

### 8.2 Exposure controls

#### 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.

#### Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### Eye/face protection

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

**Skin protection**

When handling with chemical substances, protective gloves must be work with the CE-label including the four control digits. Recommended 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.

**By short-term hand contact**

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,12 mm
Breakthrough time (maximum wearing time):	41 min

**By long-term hand contact**

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,38 mm
Breakthrough time (maximum wearing time):	> 480 min

**Respiratory protection**

Usually no personal respirative protection necessary.

**Additional 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 its location conspicuously.

**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**

<b>State:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	No data available
<b>Odour threshold:</b>	No data available
<b>Safety relevant basic data</b>	
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available

**Vapour density:** No data available

**Relative density:** No data available

**Solubility(ies)**

**Water soluble (g/L):** Miscable

**Soluble (g/L) in Ethanol:** No data available

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity**

**Kinematic viscosity:** No data available

**Dynamic viscosity:** No data available

**Explosive properties:** Not applicable

**Oxidising properties:** Not applicable

**9.2 Other safety information**

**Bulk density:** Not applicable

**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**

No data available

**10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

No data available

**10.7 Additional information**

No data available

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity: Hydrogen peroxide – LD50:&lt; 1193 mg/kg – Rat – (CHP)

Acute inhalation toxicity: Hydrogen peroxide – LC50: 2g/m3 – Rat – (National Library of Medicine ChemID Plus (NLM CIP))

Acute dermal Toxicity: Hydrogen peroxide – LD50: 2000 mg/kg – Rabbit – (IUCLID)

**Irritant and corrosive effects****Primary irritation to the skin**

Not applicable

**Irritation to the eyes**

Not applicable

**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 Ecotoxicity****Fish toxicity**

Hydrogen peroxide – LC50: 24.4mg/l (96 h) – Office of Pesticide Programs 2000. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.

**Daphnia toxicity**

Hydrogen peroxide – EC50: 13.2mg/l (48 h) – Watanabe, H., E. Takahashi, Y. Nakamura, S. Oda, N. Tatarazako, and T. Iguchi 2007. Development of a Daphnia magna DNA Microarray for Evaluating the Toxicity of Environmental Chemicals. Environ.Toxicol.Chem.26(4):669-676

**Algae toxicity**

Hydrogen peroxide – EC50:3.36mg/l (72 h) – Smit, M.G.D., E. Ebbens, R.G Jak, and M.A.J. Huijbregts 2008. Time and Concentration Dependency in the Potentially Affected Fraction of Species: The Case of Hydrogen Peroxide Treatment of Ballast Water. Envron.Toxicol.Chem.27(3):746-753

Hydrogen peroxide – EC50: 5.74mg/l (96 h) – Gregor, J., D. Jancula, and B. Marsalek 2008. Growth Assays with Mixed Cultures of Cyanobacteria and Algae Assessed by In Vivo Fluorescence: One Step Closer to Real Ecosystems? Chemosphere 70(10):1873-1878.

**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

#### Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

#### Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

**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)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

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

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

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

#### EU legislation

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures,

amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)

- Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### **National regulations**

No data available

Water hazard class (WGK): No data available

### **15.2 Chemical Safety Assessment**

No data available

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## **SECTION 16: Other information**

### **Legal disclaimer:**

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.