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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: Indicator Solution No. 1

Phenolphthalein 0.2% in ethanol (80%)

Product Numbers:

- IS01
- 125732175

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 telephone: 0844 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]

H225 Flammable liquid category 2

#### 2.2 Label elements

Hazard pictograms:



**Signal word:** Danger

**Hazard Statements:**

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

**Precautionary statements:**

**P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P243:** Take precautionary measures against static discharge.

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

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

**P403+P235** Store in a well ventilated place. Keep cool.

## 2.3 Other hazards

None

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Hazardous ingredients Classification according to Regulation (EC) No. 1272/2008 [CLP]

Ethanol absolute >80% CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43  
Flammable liquid, category 2 - H225

Eye irritation Category 2- H319

Phenolphthalein 0,1-1% CAS No.: 77-09-8 EC No.: 201-004-7 REACH No.: 01-2119498295-24  
Carcinogenicity, category 1B - H350 Germ cell mutagenicity, category 2 - H341 Reproductive toxicity, category 2 - H361f

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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** Water spray ABC-powder Carbon dioxide (CO<sub>2</sub>) Nitrogen

**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: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

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

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

#### **5.4 Additional 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.

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

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

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment.

### **6.2 Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. 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**

Storage temperature: 15-25 °C Storage class: 3 Keep container tightly closed in a cool, well-ventilated place.

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

no data available

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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

Ethanol absolute– Gestis – UK – LTV – 1920mg/m<sup>3</sup> -1000ppm

### **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 protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Eye/face protection Eye glasses with side protection DIN-/EN-Norms: DIN EN 166 Recommendation: VWR 111-0432 Skin protection when handling with chemical substances, protective gloves must be worn 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.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (DIN EN 136/140) Recommendation: VWR 111-0206 Suitable material: A2B2E2K2P3 Recommendation: VWR 111-0059

**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.

### 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 Physical state: liquid Colour: colourless
- (b) Odour: no data available
- (c) Odour threshold: no data available

#### Safety relevant basic 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: no data available
- (h) Evaporation rate: no data available
- (i) Flammability (solid, gas): Highly flammable liquid and vapour.
- (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: no data available

- (n) Solubility (ies) at 20 °C: no data available 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**

- No data available

### **10.2 Chemical stability**

- No data available

### **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
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute effects:**

Acute oral toxicity

Ethanol Absolute – LD50: > 6200mg/kg – Rat (Merck kGaA)

**Acute dermal toxicity:**

Ethanol Absolute – LD50 < 20000 mg/kg – Rabbit – (CHP)

**Acute inhalation toxicity:**

Ethanol Absolute – LC50: < 8000mg/l (4h) – Rat (CHP)

**Irritant and corrosive effects:** Primary irritation to the skin: Not applicable.

**Irritation to 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 Toxicity

**Ecotoxicity values:**

**Fish Toxicity:**

Ethanol Absolute – LC50: 11000mg/l (96h) – Bengtsson, B.E., L. Renberg and M. Tarkpea 1984.

Molecular Structure & Aquatic Toxicity – an example with C1-C13 Aliphatic Alcohols. Chemosphere 13 (5/6):613-622

**Daphnia Toxicity:**

Ethanol Absolute – LC50: 92mg/l (48h) – Takashi, I.T, U.M Cowgill and P.G Murphy 1987. Comparison of Ethanol Toxicity to Daphnia magna and Ceriodaphnia dubia tested at two different temperatures: Static Acute Toxicity Test Results. Bull.Environ.Contam.Toxicol. 39(2):29-236

Ethanol Absolute – EC50: 9950mg/l (48h) – Barera, Y, and W.J Adams 1983. Resolving some practical questions about Daphnia Acute Toxicity Tests. In: W.E Bishpp (ed.), Aquatic toxicology and Hazard Assessment, 6<sup>th</sup> symposium, ASTM STP 802, Philadelphia, PA :509-518.

**Algae Toxicity:**

No data available

**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**

**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.: 1170**

**14.2 Proper Shipping Name: Ethanol**



**14.3 Class(es):** 3 Classification code: F1 Hazard labels: 3

**14.4 Packing group:** III

**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.:** 1170

**14.2 Proper Shipping Name:** Ethanol

**14.3 Class(es):** 3 Classification code: Hazard label(s): 3

**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-E S-D

**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.:** 1170

**14.2 Proper Shipping Name:** Ethanol

**14.3 Class(es):** 3 Classification code: F1 Hazard label(s): 3

**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): strongly hazardous to water (WGK 3)

#### **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.