

## Section 1: Identification of the substance/ mixture and of the company/ undertaking

### 1.1 Product Identifier

|                     |  |
|---------------------|--|
| Product Form        | Mixture  |
| Product Name        | Ebble Surface Energy Test Fluids - Type B (Yellow)   |
| Product Information | This safety data sheet covers surface test inks, ranging from 30 dynes/cm to 72 dynes/cm. Not all values contain all risks, however, they should be treated as the worst case. |

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

#### 1.2.1 Relevant Identified Uses

|                           |                                      |
|---------------------------|--------------------------------------|
| Main use category         | Professional and Industrial use only |
| Use of substance/ mixture | Surface Energy Test Fluid            |

#### 1.2.2 Uses advised against

No additional information

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

|                             |  |
|-----------------------------|--|
| Company                     | Ebble Ltd  |
| Address                     | 40a Crossgate Road, Park Farm Industrial Estate, Redditch, B98 7SN |
| Phone Number (office hours) | 01527 304004   |
| Email Address               | <a href="mailto:info@tantec-uk.com">info@tantec-uk.com</a>         |

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225  
Health Eye Irritation (Category 2), H319  
Health Eye Irritation STOP Single 3, H336  
Environmental - Not classified

For the full text of the H-Statements mentioned in this Section, see Section 16

### 2.2 Label Elements

Classification according to Regulation (EC) No 1272/2008

Pictograms



Signal Word

Danger

Hazard Statements

|      |                                   |
|------|-----------------------------------|
| H225 | Highly flammable liquid and vapor |
| H319 | Causes serious eye irritation     |
| H336 | May cause drowsiness or dizziness |

Precautionary Statements

|      |  |
|------|--|
| P201 | Obtain special instructions before use                                   |
| P202 | Do not handle until all safety precautions have been read and understood |

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|                    |  |
|--------------------|--|
| P210               | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  |
| P233               | Keep container tightly closed  |
| P260               | Do not breathe dust/ fume/ gas/ mist/ vapors/ spray  |
| P280               | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  |
| P370               | In case of fire: use alcohol resistant foam or dry powder for extinguishing.   |
| P501D              | Empty containers may contain residual product and vapours.<br>Do not cut or weld on or near empty containers<br>Disposal should only be by means of a licensed waste disposal contractor |

Supplemental Haz Statement

|                    |   |
|--------------------|---|
| P264               | Wash skin thoroughly after handling   |
| P303 + P361 + P353 | IF ON SKIN (or hair): remove/ take off immediately all contaminated clothing. Rinse skin with water/ shower |
| P304 + P340        | IF INHALED: Remove victim to fresh air and keep at rest position comfortable for breathing                  |
| P403 + P233 + P235 | Store in well ventilated place, in original container. Keep container tightly closed and keep cool.         |

### 2.3 Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 3 Composition/ Information on ingredients

### 3.1 Substances

|                  |   |
|------------------|---|
| Name             | Propan-2-ol   |
| Formula          | CH <sub>3</sub> CHOHCH <sub>3</sub>                       |
| Molecular Weight |   |
| CAS-No           | 67-63-0   |
| EC-No            | 200-661-7   |
| Index-No         |   |
| Classification   | Flam. Liq 2-H225, eye irrit. 2 - H319, STOT single 3 H336 |
| Concentration    | <=100%  |

## Section 4: First Aid Measures

### 4.1 Description of First Aid Measures

|                         |   |
|-------------------------|---|
| General advice          | Remove affected person from source of exposure. Provide fresh air, first aid, warmth and rest. Seek medical help if symptoms persist. |
| If inhaled              | Place in recovery position, clean nose and mouth and seek emergency support.  |
| In case of skin contact | Remove contaminated clothing and wash area with soap and clean water. Seek medical assistance if symptoms persist.                    |
| In case of eye contact  | Remove contact lenses if able to do so, rinse with standard eye rinse station. Seek medical assistance if symptoms persist.           |

If swallowed Do not induce vomiting, seek medical assistance if symptoms persist.

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

No other symptoms known

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

No data available

### **Section 5: Firefighting Measures**

#### **5.1 Extinguishing Media**

Suitable extinguishing media Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

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

Development of hazardous combustion gases or vapours possible in the event of fire

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

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### **5.4 Further information**

No data available

### **Section 6: Accidental Release Measures**

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **6.2 Environmental Precautions**

Do not let product enter drains. Risk of explosion. Absorb with sand or vermiculite or other inert absorbent material.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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

For disposal see section 13.

### **Section 7: Handling and Storage**

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

Advice on safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

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Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2

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

Storage conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class Storage class (TRGS 510): 3: Flammable liquids

**7.3 Specific end use(s)**

Test inks according to ISO8296 and similar standards only.

**Section 8: Exposure controls/personal protection**

**8.1 Control Parameters**

Ingredients with workplace control parameters

| Component   | CAS No  | Value | Control Param.    | Basis        |
|-------------|---------|-------|-------------------|--------------|
| Propan-2-ol | 67-63-0 | TWA   | 400ppm, 999mg/m3  | UK. EH40 WEL |
|             |         | STEL  | 500ppm, 1250mg/m3 | UK. EH40 WEL |

**8.2 Exposure controls**

Personal protective equipment

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

Skin protection Protective gloves should be used at all times suitable to conform with EN374

Body Protection Flame retardant antistatic protective clothing

Respiratory protection Ensure adequate ventilation in local area

Control of environmental exposure Do not let product enter drains. Risk of explosion.

**Section 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties (range of mixtures)**

Appearance Yellow liquid

Odor Alcoholic

Odor Threshold No data available

pH No data available

Melting point/ freezing point -90C to 0C

Initial boiling point and boiling range 82C to 100C

Flash point 12C (Closed cup)

Evaporation rate No data available

Flammability (Solid, gas) No data available

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|   |   |
|---|---|
| Upper/ lower flammability or explosive limits | Upper explosion limit 12% (V)<br>Lower explosion limit 2% (V) |
| Vapour pressure                               | 43.3  |
| Vapour density                                | 2.1   |
| Density and relative density                  | 0.93g/cm <sup>3</sup> to 1.13 g/cm <sup>3</sup>               |
| Water solubility                              | Soluble/ miscible   |
| Partition coefficient: n-octanol/ water       | log Pow: 0.05 - Bioaccumulation is not expected., (ECHA)      |
| Autoignition temperature                      | 399C  |
| Decomposition                                 | No data available   |
| Viscosity                                     | No data available   |
| Explosive properties                          | No data available   |
| Oxidising properties                          | No data available   |

## 9.2 Other Safety Information

No data available

## Section 10: Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under normal room conditions and use

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Mixing with strong oxidising substances and strong acids

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

Carbon oxides and toxic gases/ vapours

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

|                           |   |
|---------------------------|---|
| Acute Toxicity            | LD50 (Oral rat) 4700-5800 mg/kg<br>LD50 (dermal rabbit) 13000 mg/kg<br>LC 50 (inhale rat) 19000 ppm/8hr |
| Skin corrosion/irritation | May cause dryness and cracking. Skin absorption can cause same effects as inhalation.                   |
| Eye irritation            | Irritating to eyes  |

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity -  
single exposure No data available

Specific target organ toxicity -  
repeated expo No data available

Aspiration hazard No data available

## 11.2 Additional Information

No data available

## Section 12: Ecological information

### 12.1 Toxicity

Toxicity to fish LC50, 96hrs - 9640 - 10400 mg/l

Toxicity to daphnia and other  
aquatic invertebrates EC50, 48HRS - 7550-13299 MG/L

Toxicity to algae IC50, 72hrs - >1000 mg/l

Toxicity to bacteria No data available

### 12.2 Persistence and Degradability

Biodegradability No data available

### 12.3 Bioaccumulative potential

Will not bio-accumulate

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

## Section 13: Disposal Considerations

### 13.1 Waste treatment methods

Notice Directive on waste 2008/98/EC. Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### Section 14: Transport information

##### 14.1 UN number

ADR/RID: 1219

IMDG: 1219

IATA: 1219

##### 14.2 UN proper shipping name

ADR/RID: Isopropanol

IMDG: Isopropanol

IATA: Isopropanol

##### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

##### 14.4 Packaging Group

ADR/RID: II

IMDG: II

IATA: II

##### 14.5 Environmental Hazards

ADR/RID: no

IMDG: no

IATA: no

##### 14.6 Special Precautions

No data available

#### Section 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

|   |                                      |
|---|--------------------------------------|
| Authorisations and/or restrictions on use | No data available                    |
| National legislation                      | EU Directive: (EC) No 1272/2008: CLP |
| Other regulations                         | COSHH, EH40                          |

##### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

#### Section 16: Other information

##### Full text of H-Statements referred to under sections 2 and 3.

##### Hazard Statements

|      |  |
|------|--|
| R11  | Highly flammable                           |
| R36  | Irritating to eyes                         |
| R67  | Vapours may cause drowsiness and dizziness |
| H319 | Causes serious eye irritation              |
| H225 | Highly flammable liquid and vapour         |
| H336 | May cause drowsiness and dizziness         |

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**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. Ebble Ltd and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.