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| <b>SAFETY DATA SHEET</b> | <b>Surface Tension Test Ink (Green)<br/>Dynes/cm 39-58</b> | <b>SDS Reference</b> 02         |
| <b>Version No.</b> 2     | <b>First issue date</b> 30-09-2005                         | <b>Revision date</b> 01-06-2015 |

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

|                                      |   |   |                    |
|--------------------------------------|---|---|--------------------|
| <b>1.1 Product Identifier</b>        | <b>Surface Tension Test Ink (Green)</b> |   |                    |
| <b>1.2 Relevant Use(s)/misuse(s)</b> | For wetting tension 39-58 dynes/cm      |   |                    |
| <b>1.3 SDS Supplier</b>              | <b>Vetaphone A/S</b>                    | <b>WEB: www.vetaphone.com</b>                       |                    |
|                                      | <b>Fabriksvej 11</b>                    |   |                    |
|                                      | <b>Kolding, Denmark</b>                 | <b>Telephone</b>                                    | <b>+4576300333</b> |
|                                      | <b>DK-6000</b>                          |   |                    |
| <b>1.4 Emergency Telephone No:</b>   | <b>+4576300333 (Not 24 hrs)</b>         | <b>Competent Person: trevor@rising-hsande.co.uk</b> |                    |

## 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE MIXTURE

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute Tox. 4 H302

#### 2.1.2 Additional information

See section 16 for full text of Hazard statements

## 2.2 LABEL ELEMENTS

### 2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

**Pictogram(s):**



**Signal word**

WARNING

**Hazard statement(s)**

H302 HARMFUL IF SWALLOWED

**Precautionary statement(s)**

P281 USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.  
P301+312 IF SWALLOW: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

### 2.3 OTHER HAZARDS

THE PREPARATION CONTAINS SUBSTANCES THAT HAVE A WORKPLACE EXPOSURE LIMIT (WEL)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation**

AQUEOUS MIXTURE OF ORGANIC SOLVENTS PLUS GREEN DYE

| <b><u>Hazardous Substances</u></b> | <b><u>CAS-No</u></b> | <b><u>EINECS/ELINCS</u></b> | <b><u>Classification</u></b>            | <b><u>Concentration</u></b> |
|------------------------------------|----------------------|-----------------------------|---|-----------------------------|
| HEXYLENE GLYCOL                    | 107-41-5             | 203-489-0                   | Skin Irrit. 2 H315<br>Eye Irrit. 2 H319 | 5-10%                       |
| 2,2'-OXYDIETHANOL                  | 111-46-6             | 203-872-2                   | Acute Tox. 4 H302                       | 25-70%                      |

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#### 4. FIRST AID MEASURES

##### 4.1 Description of measures

|                     |  |
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| <b>Inhalation</b>   | Remove casualty to fresh air and provide warmth and rest; if necessary, seek medical advice.                       |
| <b>Skin contact</b> | Clean areas of skin affected with soap and plenty of water. Seek medical advice.                                   |
| <b>Eye contact</b>  | Wash out eye thoroughly with plenty of water until irritation subsides. Consult an eye specialist/ophthalmologist. |
| <b>Ingestion</b>    | If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary seek medical advice.          |

**4.2 Most important effects/symptoms** None known. .

**4.3 Immediate/special treatment** Treatment as described above.

#### 5. FIRE FIGHTING MEASURES

|                                     |  |
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| <b>5.1 Extinguishing media</b>      | To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder).  |
| <b>5.2 Special hazards</b>          | The product is non flammable but combustible. Decomposition products released in a fire should be considered as probably harmful if inhaled. |
| <b>5.3 Advice for fire fighters</b> | Wear self-contained breathing apparatus  |

#### 6. ACCIDENTAL RELEASE MEASURES

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|--|---|
| <b>6.1 Personal precautions</b>                  | Adhere to personal protective measures.   |
| <b>6.2 Environmental precautions</b>             | Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.                     |
| <b>6.3 Methods and materials for cleaning up</b> | Take up with absorbent material, e.g. sand, sawdust, into tightly closed containers.. Label container and dispose of as prescribed. |
| <b>6.4 Reference to other sections</b>           | See section 8 for personal protective equipment.  |

#### 7. HANDLING AND STORAGE

|  |   |
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| <b>7.1 Precautions for safe handling</b> | Handle in accordance with good hygiene and safety practice. Keep away from incompatible substances. |
| <b>7.2 Conditions for safe storage</b>   | Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry.      |
| <b>7.3. Specific end use(s)</b>          | For wetting tension 39-58 dynes/cm  |

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                |   |    |     |     |  |
|--------------------------------|---|----|-----|-----|--|
| <b>8.1 Controls parameters</b> | Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005). |    |     |     |  |
|                                | LTEL (8 hour TWA):  | 25 | ppm | 123 | mg/m <sup>3</sup> WEL for hexylene glycol  |
|                                | STEL (15min):   | 25 | ppm | 123 | mg/m <sup>3</sup> WEL for hexylene glycol  |
|                                | LTEL (8 hour TWA):  | 23 | ppm | 101 | mg/m <sup>3</sup> WEL for 2.2 oxydiethanol |

##### 8.2 Exposure controls

|                      |  |                      |    |
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |  |
|-------------------------------|--|
| <b>Engineering controls</b>   | Provide adequate ventilation (e.g. local exhaust ventilation).<br>Take measures against the build up of static electricity.  |
| <b>Personal protection</b>    | Observe normal standards for handling chemicals.<br>Avoid inhalation, and contact with eyes and skin<br>Wear personal protective equipment appropriate to the task (see below) |
| <b>Eye protection</b>         | Safety goggles if splashing  |
| <b>Skin protection</b>        | Chemical resistant gloves (also consider your own risk assessment;<br>e.g. breakthrough times, rates of diffusion and degradation, tasks<br>undertaken)                        |
| <b>Respiratory protection</b> | Approved respirator (e.g. EN 149:2001 FFP3) if ventilation is<br>insufficient.   |
| <b>Other protection</b>       | Protective overall   |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Basic physical and chemical properties

|   |                      |                      |                           |
|---|----------------------|----------------------|---------------------------|
| <b>Physical form</b>                            | Liquid               |                      |                           |
| <b>Colour</b>                                   | Green Food Colour 1% |                      |                           |
| <b>Odour</b>                                    | Ethereal             |                      |                           |
| <b>pH</b>                                       | Not applicable.      |                      |                           |
| <b>Boiling pt / range</b>                       | From 245 °C          |                      |                           |
| <b>Melting pt / range</b>                       | Not determined °C    |                      |                           |
| <b>Flash point</b>                              | >60 °C               |                      |                           |
| <b>Flammability</b>                             | Not applicable       |                      |                           |
| <b>Evaporation rate</b>                         | Not applicable       |                      |                           |
| <b>Explosion limits</b>                         | Not determined       |                      |                           |
| <b>Auto-ignition temperature</b>                | Not applicable       |                      |                           |
| <b>Decomposition temp.</b>                      | Not applicable       |                      |                           |
| <b>Relative density</b>                         | Not determined       |                      |                           |
| <b>Viscosity</b>                                | Not determined       |                      |                           |
| <b>Vapour pressure</b>                          | Not applicable       |                      |                           |
| <b>Vapour density</b>                           | Not applicable       |                      |                           |
| <b>Water solubility</b>                         | miscible             |                      |                           |
| <b>Explosive limits</b>                         | Lower: 2.0 % (v/v)   | Higher: 12.3 % (v/v) | Data for 2.2 oxydiethanol |
| <b>Oxidising properties</b>                     | Not determined       |                      |                           |
| <b>Partition coeff. Log<sub>Oct/water</sub></b> | Not determined       |                      |                           |
| <b>9.2 Other information</b>                    | None known           |                      |                           |

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| <b>10. STABILITY AND REACTIVITY</b> |
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|--|---|
| <b>10.1 Reactivity</b>                       | Not determined  |
| <b>10.2 Chemical stability</b>               | Stable under normal conditions of handling.   |
| <b>10.3 Hazardous reactions</b>              | Not determined  |
| <b>10.4 Conditions to avoid</b>              | Not determined  |
| <b>10.5 Incompatible material</b>            | The product is incompatible with bases, acids, strong oxidising agents, copper and its alloys |
| <b>10.6 Hazardous decomposition products</b> | Oxides of carbon and nitrogen.  |

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| <b>11. TOXICOLOGICAL INFORMATION</b> |
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**11.1 information on toxicological effects**

|                                      |  |       |       |                           |
|--------------------------------------|--|-------|-------|---------------------------|
| <b>Acute toxicity</b>                | LD <sub>50</sub> rat (oral)                          | 12565 | mg/kg | Data for 2.2 oxydiethanol |
|                                      | LD <sub>50</sub> rabbit (dermal)                     | 11890 | mg/kg | Data for 2.2 oxydiethanol |
|                                      | LD <sub>50</sub> rat (oral)                          | 3700  | mg/kg | Data for hexylene glycol  |
|                                      | LD <sub>50</sub> rabbit (dermal)                     | 8560  | mg/kg | Data for hexylene glycol  |
| <b>Dermal compatibility</b>          | 500 mg MLD – rabbit skin (data for 2.2 oxydiethanol) |       |       |                           |
| <b>Mucous membrane compatibility</b> | 50 mg MLD – rabbit eye (data for 2.2 oxydiethanol)   |       |       |                           |
|                                      | 93 mg SEV – rabbit eye (data for hexylene glycol)    |       |       |                           |

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| <b>12. ECOLOGICAL INFORMATION</b> |
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|                                       |                         |                   |      |                   |
|---------------------------------------|-------------------------|-------------------|------|-------------------|
| <b>12.1 Toxicity</b>                  | LC <sub>50</sub>        | Aquatic organisms | mg/l | No data available |
| <b>12.2 Degradability</b>             | No data available .     |                   |      |                   |
| <b>12.3 Bioaccumulative potential</b> | No data available       |                   |      |                   |
| <b>12.4 Mobility in soil</b>          | Not determined          |                   |      |                   |
| <b>12.5 PBT/vPvB assessment</b>       | Does not meet criteria. |                   |      |                   |
| <b>12.6 Other adverse effects</b>     | None known.             |                   |      |                   |

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| <b>13. DISPOSAL CONSIDERATIONS</b> |
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**13.1 Waste treatment measures**

|                           |   |
|---------------------------|---|
| <b>Advice on disposal</b> | In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle. |
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| <b>14. TRANSPORT INFORMATION</b> |
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|---|--|
| <b>14.1 United Nations number ADR, IMDG, IATA</b> | Not classified   |
| <b>14.2 Proper shipping name ADR, IMDG, IATA</b>  | Not classified   |
| <b>14.3 Transport class(s) ADR, IMDG, IATA</b>    | Not classified   |
| <b>14.4 Packing group ADR, IMDG, IATA</b>         | Not classified   |
| <b>14.5 Environmental hazards ADR, IMDG, IATA</b> | The product should NOT be marked as an environmentally hazardous substance |
| <b>14.6 Special procedures ADR, IMDG, IATA</b>    | Not applicable   |
| <b>14.7 Transport in bulk ADR, IMDG, IATA</b>     | Not applicable   |

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| <b>15. REGULATORY INFORMATION</b> |
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|  |  |
|--|--|
| <b>15.1 Safety, health and environmental regulations</b> | The product is classified in accordance with EC Regulation 1272/2008 (CLP), Other regulatory information and provisions are not applicable for this product. |
| <b>15.2 Chemical safety assessment</b>                   | The product has not been the subject of a Chemical Safety Report   |

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| <b>16. OTHER INFORMATION</b> |
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|                            |   |
|----------------------------|---|
| <b>Further information</b> | The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP),<br><br><b><u>Risk phrases for the components (given in section 3)</u></b><br><br>H302: Harmful if swallowed<br>H315: Causes skin irritation. .<br>H319: Causes serious eye irritation. . |
| <b>Sources of data</b>     | Other suppliers' safety data sheets, Approved Supply List, EH40/2011  |
| <b>Date of issue</b>       | 01-06-2015  |

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