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SAFETY DATA SHEET TEST PENS – DISPOSABLE 38 to 42 mN/m SDS Reference 06
Version No. 2 Revision date 06-08-2003 Authorisation date 08-08-2003

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name Surface Tension Testing Solution in Pre-Filled Disposable Pens
Product Usage Printing ink

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation MIXTURE OF ORGANIC SOLVENTS

| <u>Chemical name</u> | <u>CAS-No</u> | <u>EINECS/ELINCS</u> | <u>Classification</u> | <u>Concentration</u> |
|--------------------------|---------------|----------------------|-----------------------|----------------------|
| 2,2-OXYDIETHANOL | 111-46-6 | 203-872-2 | N.C. (OEL DATA) | 80-100% |
| 2-METHYLPENTANE-2,4-DIOL | 107-41-5 | 203-489-0 | Xi: R36/38 | 5-10% |

3. HAZARDS IDENTIFICATION

Physical & Chemical:

Health: ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO BE HARMLESS TO HEALTH IF HANDLED IN THE CORRECT MANNER.

THE PRODUCT CONTAINS SUBSTANCES WHICH HAVE AN OCCUPATIONAL EXPOSURE LIMIT (OEL).

Environmental: ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO BE HARMLESS TO THE ENVIRONMENT IF HANDLED IN THE CORRECT MANNER.

4. FIRST AID MEASURES

General information

Inhalation Remove casualty to fresh air and provide warmth and rest; if necessary, seek medical advice

Skin contact Clean areas of skin affected with soap and plenty of water; if necessary, seek medical advice.

Eye contact Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists) consult an eye specialist/ophthalmologist.

Ingestion . Drink plenty of water and if necessary seek medical advice.

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| General hazard | THE PRODUCT IS NON FLAMMABLE BUT COMBUSTIBLE |
| Extinguishing media | To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder) |
| Extinguishing media not to be used | |
| Special exposure hazards | Decomposition products released in a fire should be considered as probably harmful if inhaled. |
| Protective equipment | Wear self-contained breathing apparatus. |
| Further information | |

6. ACCIDENTAL RELEASE MEASURES

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| Methods for cleaning up | Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust, into tightly closed containers. Clean area with detergents, avoiding the use of solvents. Label container and dispose of as prescribed. |
| Environmental considerations | Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. |
| Further information | |

7. HANDLING & STORAGE

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|--------------------------------|---|
| Advice on safe handling | Handle in accordance with good hygiene and safety practice. Keep away from incompatible substances. |
| Storage conditions | Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry, and away from incompatible substances. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------------|---|
| Exposure controls | Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. Data reported according to EH40/2003 |
| | LTEL (8 hour TWA): 23 ppm 101 mg/m ³ OES for 2,2'-oxydiethanol |
| | LTEL (8 hour TWA): 25 ppm 123 mg/m ³ OES for 2-methylpentane-diol |
| | STEL (15 min.): 25 ppm 123 mg/m ³ OES for 2-methylpentane-diol |
| Engineering controls | Provide local exhaust ventilation. |
| Personal protection | Observe normal standards for handling chemicals. Wash hands before breaks and after work. Avoid inhalation of vapour and contact with eyes and skin Wear personal protective equipment appropriate to the task (see below) |
| Eye protection | Safety goggles |
| Skin protection | Rubber gloves (Also consider your own risk assessment) |
| Respiratory protection | Approved respirator (e.g. EN 149:2001 FFP3) if ventilation is insufficient. |
| Other protection | Protective overall |

9. PHYSICAL & CHEMICAL PROPERTIES

| | |
|--------------------|--|
| Physical form | Liquid |
| Colour | Various |
| Odour | Not determined. |
| pH | Not applicable. |
| Boiling pt / range | From 245 °C |
| Melting pt / range | Not determined. °C |
| Flash point | > 55 °C |
| Specific gravity | Not determined. |
| Explosive limits | Lower: 2 % (v/v) Higher: 12.3 % (v/v) Data for 2,2'-oxydiethanol |
| Viscosity | Not determined. |
| Water solubility | Partially miscible |

10. STABILITY & REACTIVITY

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|----------------------------------|--|
| Stability | Stable under normal conditions of handling. |
| Thermal decomposition | Not determined. |
| Conditions to avoid | Not determined. |
| Material to avoid | The product is incompatible with strong acids and bases, strong oxidising agents |
| Hazardous reactions | None known |
| Hazardous decomposition products | Oxides of carbon |

11. TOXICOLOGICAL INFORMATION

| | | | |
|-------------------------------|--|-------------|-----------------------------------|
| Acute toxicity | LD ₅₀ rat (oral) | 12565 mg/kg | Data for 2,2-oxydiethanol |
| | LD ₅₀ rat (oral) | 3700 mg/kg | Data for 2-methylpentane-2,4-diol |
| Dermal compatibility | 465 mg MLD – rabbit skin (data for 2-methylpentane-2,4-diol) | | |
| Mucous membrane compatibility | 93 mg SEV – rabbit eye (data for 2-methylpentane-2,4-diol) | | |
| Further information | | | |

12. ECOLOGICAL INFORMATION

| | | | | |
|---------------------|---|------|------|--------------------|
| Acute toxicity | LC ₅₀ | Fish | mg/l | No data available. |
| Degradability | No data available. | | | |
| Further information | Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once. | | | |

13. DISPOSAL CONSIDERATIONS

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|------------------------|---|
| Advice on disposal | In accordance with national and local authority regulations, e.g. controlled waste. |
| Contaminated packaging | Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle. |

14. TRANSPORT INFORMATION

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|-----------------------|-------------------------------|
| United Nations number | Not classified for transport. |
| Packaging group | |
| IMDG code | |
| RID / ADR | |
| Marine pollutant | |
| Proper shipping name | |

15. REGULATORY INFORMATION

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| Classification & labelling | In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations, [CHIP 3], the product is not classified. |
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Risk phrases
Safety phrases

16. OTHER INFORMATION

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|---------------------|---|
| Further information | <u>Risk phrases referred to in section 2</u> R36/38: Irritating to eyes and skin |
| Sources of data | Other suppliers' safety data sheets, Approved Supply List, EH40 |
| Date of issue | 09-08-2003 |

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

Data sheet prepared by Rising HS&E Services.