

Corona Supplies Ltd

for all your corona needs

SAFETY DATA SHEET	Surface Tension Test Ink (Blue) Dynes/cm 40-58	SDS Reference 04
Version No. 1	First issue date 13-03-2008	Revision date 03-06-2008

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name	Surface Tension Test Ink (Blue)		
Product Usage	For wetting tension 40-58 dynes/cm		
Company Identification	Corona Supplies Unit G Howland Road Business Park, Thame, Oxon England, OX9 3GQ	WEB: www.coronasupplies.co.uk	Telephone 01844 261779 Fax No 01844 358187
Emergency Telephone No.	01844 261779 (Not 24 hrs)	Competent Person: sales@coronasupplies.co.uk	

2. HAZARDS IDENTIFICATION

Physical & Chemical: NON HAZARDOUS

Health: TOXIC. MAY IMPAIR FERTILITY. MAY CAUSE HARM TO THE UNBORN CHILD. HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED (SEE SECTION 16). THE PRODUCT CONTAINS SUBSTANCES THAT HAVE A WORKPLACE EXPOSURE LIMIT.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation MIXTURE OF ORGANIC SOLVENTS PLUS BLUE DYE

<u>Hazardous Substances</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
2-ETHOXYETHANOL	110-80-5	203-804-1	Repr Cat 2: R60, 61 Xn: R20/21/22	1-50%
FORMAMIDE	75-12-7	200-842-0	Repr Cat 2: R61	50-99%

4. FIRST AID MEASURES

General information	Remove contaminated clothing immediately, to be disposed of or washed before re-use.
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. Do not induce vomiting.

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5. FIRE FIGHTING MEASURES

General hazard	The product is NON FLAMMABLE
Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam, chemical powder)
Extinguishing media not to be used	None known
Special exposure hazards	Decomposition products released in a fire should be considered as probably harmful if inhaled.
Protective equipment	Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING & STORAGE

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	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005). <table> <tr> <td>LTEL (8 hour TWA):</td> <td>20</td> <td>ppm</td> <td>37</td> <td>mg/m³</td> <td>WEL for formamide</td> </tr> <tr> <td>STEL (15min):</td> <td>30</td> <td>ppm</td> <td>56</td> <td>mg/m³</td> <td>WEL for formamide</td> </tr> <tr> <td>LTEL (8 hour TWA):</td> <td>10</td> <td>ppm</td> <td>37</td> <td>mg/m³</td> <td>WEL for 2-ethoxyethanol</td> </tr> </table>	LTEL (8 hour TWA):	20	ppm	37	mg/m ³	WEL for formamide	STEL (15min):	30	ppm	56	mg/m ³	WEL for formamide	LTEL (8 hour TWA):	10	ppm	37	mg/m ³	WEL for 2-ethoxyethanol
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Engineering controls	Provide local exhaust ventilation. Take measures against the build up of electrostatic charges																		
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 Risks to pregnant women and those of child bearing age should be assessed. Wear personal protective equipment appropriate to the task (see below)																		
Eye protection	Safety goggles																		
Skin protection	Gloves (Natural latex, 2.6mm, breakthrough time 308 mins.) Also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken and degradation, tasks undertaken																		
Respiratory protection	Approved respirator (e.g. EN 149:2001 FFP3) if ventilation is insufficient.																		
Other protection	Protective overall																		

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9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Liquid
Colour	Blue
Odour	Ethereal
pH	Not applicable.
Boiling pt / range	From 135 °C
Melting pt / range	-90 to 3. °C
Flash point	> 63 °C
Specific gravity	Not determined.
Explosive limits	Lower: 1.7 % (v/v) Higher: 15.6 % (v/v) Data for 2-ethoxyethanol @93°C
Explosive limits	Lower: 2.7 % (v/v) Higher: 19 % (v/v) Data for formamide
Viscosity	Not determined.
Water solubility	Miscible

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Thermal decomposition	Not determined.
Conditions to avoid	Heat, light, moisture
Material to avoid	The product is incompatible with bases, acids, strong oxidising agents, aluminium and carbon steel
Hazardous reactions	Peroxide formation is possible leading to explosion if subjected to heat or shock.
Hazardous decomposition products	Oxides of carbon and nitrogen, peroxide, HCN, formic acid, ammonia.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ rat (oral)	2125 mg/kg	Data for 2-ethoxyethanol
	LD ₅₀ rat (dermal)	3900 mg/kg	Data for 2-ethoxyethanol
	LD ₅₀ rabbit (dermal)	3.6 mg/kg	Data for 2-ethoxyethanol
	LD ₅₀ rat (oral)	5577 mg/kg	Data for formamide
	LD ₅₀ rabbit (dermal)	17000 mg/kg	Data for formamide
Dermal compatibility	Not determined		
Mucous membrane compatibility	50 mg MLD – rabbit eye (data for 2-ethoxyethanol)		

12. ECOLOGICAL INFORMATION

Acute toxicity	LC ₅₀	Fish (blue gill)	> 10,000 mg/l	96 hours (2-ethoxyethanol)
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.			

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13. DISPOSAL CONSIDERATIONS

Advice on disposal	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Contaminated packaging	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number	Not classified for transport
Marine pollutant	The product should not be marked as a marine pollutant.

15. REGULATORY INFORMATION

Classification & labelling	The product is classified as TOXIC in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3.1] as amended, and the Dangerous Preparations Directive (1999/45/EC) Contains 2-ethoxyethanol, formamide
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Restricted to professional users

Risk phrases	R60	MAY IMPAIR FERTILITY.
	R61	MAY CAUSE HARM TO THE UNBORN CHILD.
	R20/21/22	HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED
Safety phrases	S53	AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
	S45	IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

16. OTHER INFORMATION

Further information	The risk phrase R20/21/22 may not apply to all products in the 40-58 dynes/cm range, but is included as a precaution.
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Risk phrases for the components (given in section 3)

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
R60: May impair fertility.
R61: May cause harm to the unborn child.

Sources of data	Other suppliers' safety data sheets, Approved Supply List, EH40/2005
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Date of issue	13-03-2008
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