

SAFETY DATA SHEET	Surface Tension Test Ink (Blue) Dynes/cm 38-58	SDS Reference 04
Version No. 3	First issue date 13-03-2008	Revision date 14-08-2015

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Identifier	Surface Tension Test Ink (Blue)		
1.2 Relevant Use(s)/misuse(s)	For wetting tension 38-58 dynes/cm		
1.3 SDS Supplier	Corona Supplies Ltd	WEB: www.coronasupplies.co.uk	
	Unit G, Howland Road Business Park	Telephone	+44 (0) 1844 261779
	Thame, Oxon	Fax No	+44 (0) 1844 358187
	England, OX9 3GQ		
1.4 Emergency Telephone No:	+44 (0) 1844 261779 (Not 24 hrs)	Competent Person:	trevor@rising-hsande.co.uk

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
Acute Tox 4 H312
Acute Tox 4 H332
Repr. 1 B H360FD

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 DANGER
Hazard statement(s)	H302 HARMFUL IF SWALLOWED H312 HARMFUL IN CONTACT WITH SKIN H332 HARMFUL IF INHALED H360FD MAY DAMAGE FERTILITY OR THE UNBORN CHILD	
Precautionary statement(s)	P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P281 USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. P308+313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION. P501 DISPOSE OF CONTENTS/CONTAINER TO AUTHORISED SITE.	

2.3 OTHER HAZARDS

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

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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	Flam. Liq. 3 H226; Acute Tox. 4 H302; Acute Tox. 4 H312; Acute Tox. 4 H332; Repr.1B H360FD	1-50%
FORMAMIDE	75-12-7	200-842-0	Repr 1B H360D	50-99%

4. FIRST AID MEASURES

4.1 Description of measures	
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. Seek medical advice.
Eye contact	Wash out eye thoroughly with plenty of water until irritation subsides. Consult an eye specialist/ophthalmologist.
Ingestion	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

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

6. ACCIDENTAL RELEASE MEASURES

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

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Keep away from incompatible substances.
7.2 Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry.
7.3. Specific end use(s)	For wetting tension 38-58 dynes/cm

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011).
	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): 2 ppm 8 mg/m ³ WEL for 2-ethoxyethanol

8.2 Exposure controls

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



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and 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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point	>60 °C (estimated)
Flammability	Not applicable
Evaporation rate	Not applicable
Explosion limits	Not determined
Auto-ignition temperature	Not applicable
Decomposition temp.	Not applicable
Relative density	Not determined
Viscosity	Not determined
Vapour pressure	Not applicable
Vapour density	Not applicable
Water solubility	Miscible
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
Oxidising properties	Not determined
Partition coeff. Log_{Oct/water}	Not determined
9.2 Other information	None known

10. STABILITY AND REACTIVITY

10.1 Reactivity	Peroxide formation is possible leading to explosion if subjected to heat or shock.
10.2 Chemical stability	Stable under normal conditions of handling.
10.3 Hazardous reactions	Not determined
10.4 Conditions to avoid	Heat, light, moisture
10.5 Incompatible material	The product is incompatible with bases, acids, strong oxidising agents, aluminium and carbon steel
10.6 Hazardous decomposition products	Oxides of carbon and nitrogen, peroxide, HCN, formic acid, ammonia

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

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)		

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12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀	Fish (blue gill)	> 10,000 mg/l	96 hours (2-ethoxyethanol)
12.2 Degradability	No data available .			
12.3 Bioaccumutive potential	No data available			
12.4 Mobility in soil	Not determined			
12.5 PBT/vPvB assessment	Does not meet criteria.			
12.6 Other adverse effects	None known.			

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment measures	
Advice on disposal	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.

14. TRANSPORT INFORMATION

14.1 United Nations number ADR, IMDG, IATA	Not classified
14.2 Proper shipping name ADR, IMDG, IATA	Not classified
14.3 Transport class(s) ADR, IMDG, IATA	Not classified
14.4 Packing group ADR, IMDG, IATA	Not classified
14.5 Environmental hazards ADR, IMDG, IATA	The product should NOT be marked as an environmentally hazardous substance
14.6 Special procedures ADR, IMDG, IATA	Not applicable
14.7 Transport in bulk ADR, IMDG, IATA	Not applicable

15. REGULATORY INFORMATION

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

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16. OTHER INFORMATION

Further information The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

Hazard Statements for the components (given in sections 2/3)

- H226: Flammable liquid and vapour
- H302: Harmful if swallowed
- H312: Harmful in contact with skin
- H332: Harmful if inhaled
- H360FD: May damage fertility or the unborn child
- H360D: May damage the unborn child

Sources of data Other suppliers' safety data sheets, Approved Supply List, EH40/2011

Date of issue 14-08-2015

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