SAFETY DATA SHEET	**Surface Tension Test Ink (Blue) Dynes/cm 38-58**	**SDS Reference** 04
Version No. 6.0	**First issue date** 13/03/2008	**Revision date** 27/01/2025

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : Surface Tension Test Ink (Blue) Dynes/cm 38-58

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

Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : A liquid mixture for accurately measuring the surface tension of plastic and non-plastic materials

1.3. Details of the supplier of the safety data sheet

Corona Supplies Ltd
Unit G
Howland Road Business Park
Thame,
Oxon. OX9 3GQ

T:+44 (0) 1844 261779
F: +44 (0) 1844 358187
www.coronasupplies.co.uk

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) Category 3 H331
Reproductive toxicity, Category 1B H360
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Toxic if inhaled.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS06 GHS08

Signal word (CLP)	:	Danger
Contains	:	2-ethoxyethanol; ethylene glycol monoethyl ether;formamide
Hazard statements (CLP)	:	H331 - Toxic if inhaled. H360 - May damage fertility or the unborn child.
Precautionary statements (CLP)	:	P201 - Obtain special instructions before use. P261 - Avoid breathing vapours, spray, fume, mist. P280 - Wear eye protection, face protection. P304+P340+P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor. P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-ethoxyethanol (110-80-5), Formamide (75-12-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-ethoxyethanol (110-80-5), Formamide (75-12-7)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Formamide (75-12-7), 2-ethoxyethanol (110-80-5)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Formamide substance listed on REACH Candidate List substance with national workplace exposure limit(s) (GB)	CAS-No.: 75-12-7 EC-No.: 200-842-0 EC Index-No.: 616-052-00-8	≥ 50	Repr. 1B, H360D
2-ethoxyethanol substance listed on REACH Candidate List substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 110-80-5 EC-No.: 203-804-1 EC Index-No.: 603-012-00-X	1 – 60	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 1B, H360FD

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Call a doctor.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution.
First-aid measures after ingestion	:	Call a poison center or a doctor if you feel unwell.

First-aid measures for first aider : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Toxic if inhaled.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.
Chronic symptoms : May damage fertility or the unborn child.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

2-ethoxyethanol (110-80-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Ethoxy ethanol
IOEL TWA	8 mg/m³
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	2-Ethoxy ethanol
BOEL TWA	8 mg/m³
	2 ppm
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2022/431 (amending Directive 2004/37/EC)
EU - Biological limit values (BLV)	
Local name	2-Ethoxyethanol
BLV	50 mg/l Parameter: 2-ethoxyacetic acid - Medium: urine 40 mg/g creatinine Parameter: 2-ethoxyacetic acid - Medium: urine
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
United Kingdom - Occupational Exposure Limits	
Local name	2-Ethoxyethanol
WEL TWA (OEL TWA)	8 mg/m³
	2 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Formamide (75-12-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Formamide
WEL TWA (OEL TWA)	37 mg/m³
	20 ppm
WEL STEL (OEL STEL)	56 mg/m³
	30 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:
Wear recommended personal protective equipment.

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Safety glasses

Eye protection

Type	Field of application	Characteristics	Standard
Safety goggles	Droplet		EN 166

Skin protection

Skin and body protection:
Wear suitable protective clothing

Skin and body protection

Type	Standard
Long sleeved protective clothing	

Hand protection:
protective gloves

Hand protection

Type	Material	Permeation	Thickness	Penetration	Standard
Disposable gloves	Natural rubber, Nitrile rubber (NBR), Neoprene rubber (HNBR), Polyvinylchloride (PVC)				EN ISO 374

Respiratory protection

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

Respiratory protection

Device	Filter type	Condition	Standard
Reusable half mask	Gas/vapour filter	Vapour protection	EN 405, EN 140

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Blue.
Odour	:	Ethereal.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	> 135 °C
Flammability	:	Non flammable.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 60 °C

Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases. Metals.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May form explosive peroxides. Formic acid. ammonia.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Inhalation:dust,mist: Toxic if inhaled.

Surface Tension Test Ink (Blue) Dynes/cm 38-58	
ATE CLP (dust,mist)	1 mg/l/4h

2-ethoxyethanol (110-80-5)	
LD50 oral rat	2800 mg/kg
LD50 oral	1400 mg/kg Guinea pig
LD50 dermal rabbit	3300 mg/kg
LC50 Inhalation - Rat [ppm]	4267 ppm/4h

Formamide (75-12-7)	
LD50 oral rat	≈ 5325 mg/kg bodyweight (OECD 401 method)
LD50 oral	> 5000 mg/kg
LD50 dermal rat	> 3000 mg/kg bodyweight
LD50 dermal rabbit	17 g/kg
LC50 Inhalation - Rat	> 21 mg/l air (OECD 403 method)
LC50 Inhalation - Rat [ppm]	3900 ppm
LC50 Inhalation - Rat (Vapours)	> 21 mg/l

Skin corrosion/irritation : Not classified

2-ethoxyethanol (110-80-5)	
pH	7

Formamide (75-12-7)	
pH	7.1

Serious eye damage/irritation : Not classified

2-ethoxyethanol (110-80-5)	
pH	7

Formamide (75-12-7)	
pH	7.1

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Formamide (75-12-7)	
NOAEL (chronic, oral, animal/male, 2 years)	20 mg/kg bodyweight (OECD 451 method)
NOAEL (chronic, oral, animal/female, 2 years)	80 mg/kg bodyweight (OECD 451 method)

Reproductive toxicity : May damage fertility or the unborn child.

2-ethoxyethanol (110-80-5)	
NOAEL (animal/male, F0/P)	93 mg/kg bodyweight
NOAEL (animal/male, F1)	93 mg/kg bodyweight

Formamide (75-12-7)	
NOAEL (animal/male, F1)	152 – 183 mg/kg bodyweight
NOAEL (animal/female, F1)	85 – 101 mg/kg bodyweight

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Formamide (75-12-7)	
NOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight (OECD 411 method)

Aspiration hazard : Not classified

Formamide (75-12-7)	
Viscosity, kinematic	3330.973 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

2-ethoxyethanol (110-80-5)	
LC50 - Fish [1]	> 10000 mg/l Lepomis macrochirus (Bluegill)

Formamide (75-12-7)	
LC50 - Fish [1]	6569 mg/l Leuciscus idus (golden orfe)
LC50 - Fish [2]	4600 – 9300 Leuciscus idus (golden orfe)
EC50 - Crustacea [1]	> 500 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 500 mg/l Desmodesmus subspicatus
EC50 96h - Algae [1]	> 500 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability

Surface Tension Test Ink (Blue) Dynes/cm 38-58

Persistence and degradability: Rapidly degradable

2-ethoxyethanol (110-80-5)

Persistence and degradability: Readily biodegradable.

Formamide (75-12-7)

Persistence and degradability Rapidly degradable

12.3. Bioaccumulative potential

2-ethoxyethanol (110-80-5)

Partition coefficient n-octanol/water (Log Pow) -0.1

Formamide (75-12-7)

Partition coefficient n-octanol/water (Log Pow) -1.51

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-ethoxyethanol (110-80-5), Formamide (75-12-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-ethoxyethanol (110-80-5), Formamide (75-12-7)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

European List of Waste (LoW, EC 2000/532) : 08 03 12* - waste ink containing dangerous substances

HP Code : HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: 2-Ethoxyethanol (EC 203-804-1, CAS 110-80-5), Formamide (EC 200-842-0, CAS 75-12-7)

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

United Kingdom

British National Regulations : Hazardous Waste (England and Wales) Regulations 2005.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very persistent and very bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H360FD	May damage fertility. May damage the unborn child.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.