

SAFETY DATA SHEET		Surface Tension Test Ink (Green) Dynes/cm 40-58		SDS Reference	<b>9</b> 02
Version No.	6.0	First issue date	30/09/2005	Revision date	28/01/2025
according to Pagulation (EC) No. 1007/2006 (PEACH) with its amondment Pagulation (EU) 2020/979					

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 (Green) Dynes/cm 40-58

### 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	Dudley Road	0344 892 0111	Only for healthcare
	(Birmingham Centre)	B18 7QH		professionals
	City Hospital			

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302

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

## Adverse physicochemical, human health and environmental effects

Harmful if swallowed.

## 2.2. Label elements

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

Hazard pictograms (CLP)



## Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

Signal word (CLP) : Warning

Contains : 2,2'-oxybisethanol; diethylene glycol

Hazard statements (CLP) : H302 - Harmful if swallowed.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell.

P330 - Rinse mouth.

#### 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	2,2'-oxydiethanol (111-46-6), 2-methylpentane-2,4-diol (107-41-5)
regulation, in accordance with Annex XIII	
Substance(s) not meeting the vPvB criteria of REACH	2,2'-oxydiethanol (111-46-6), 2-methylpentane-2,4-diol (107-41-5)
regulation, in accordance with Annex XIII	

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	2,2'-oxydiethanol (111-46-6), 2-methylpentane-2,4-diol (107-41-5)
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	

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-oxydiethanol	CAS-No.: 111-46-6	25 – 75	Acute Tox. 4 (Oral), H302
substance with national workplace exposure limit(s)	EC-No.: 203-872-2		
(GB)	EC Index-No.: 603-140-00-6		
	REACH-no: 01-2119457857-21		
2-methylpentane-2,4-diol	CAS-No.: 107-41-5	5 – 10	Skin Irrit. 2, H315
substance with national workplace exposure limit(s)	EC-No.: 203-489-0		Eye Irrit. 2, H319
(GB)	EC Index-No.: 603-053-00-3		
	REACH-no: 01-2119539582-35		

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 : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

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 : Rinse mouth. 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 : None under normal conditions. Symptoms/effects after skin contact : None under normal conditions.

## Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Harmful if swallowed.

## 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 : Ventilate spillage area.

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.

### 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.

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 : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

## Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

### 7.2. Conditions for safe storage, including any incompatibilities

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

Storage conditions : Keep cool. Protect from sunlight.

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

2,2'-oxydiethanol (111-46-6)		
United Kingdom - Occupational Expo	ure Limits	
Local name	2,2'-Oxydiethanol	
WEL TWA (OEL TWA)	101 mg/m³	
	23 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
2-methylpentane-2,4-diol (107-41-	5)	
United Kingdom - Occupational Expos	ure Limits	
Local name	2-Methylpentane-2,4-diol	
WEL TWA (OEL TWA)	123 mg/m³	
	25 ppm	
WEL STEL (OEL STEL)	123 mg/m³	
	25 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

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



## Eye and face protection

#### Eye protection:

Safety glasses

## Skin protection

### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

protective gloves

#### Hand protection

Туре	Material	Permeation	Thickness	Penetration	Standard
Disposable gloves	Latex, Chloroprene rubber	6 (> 480 minutes)	0.6		EN ISO 374
	(CR)				

## Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

#### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### **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 : Green. Odour : Fthereal. Odour threshold : Not available : Not applicable Melting point Freezing point : Not available : > 135 °C Boiling point Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available Flash point : > 63 °C Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : 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

Strong bases. Oxidizing agent. Strong acids. metals.

## 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

# Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

## **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation)	: Not classified
Surface Tension Test Ink (Green) Dynes/cm	n 39-58
ATE CLP (oral)	1428.571 mg/kg bodyweight
2,2'-oxydiethanol (111-46-6)	
LD50 oral rat	12565 mg/kg
LD50 oral	1000 mg/kg human
LD50 dermal rabbit	11890 mg/kg
LC50 Inhalation - Rat	> 4.4 mg/l
2-methylpentane-2,4-diol (107-41-5)	
LD50 oral rat	4700 mg/kg
LD50 dermal rabbit	88560 μl/kg
LC50 Inhalation - Rat	310 mg/l
Skin corrosion/irritation	: Not classified
2-methylpentane-2,4-diol (107-41-5)	
рН	6 – 8
Serious eye damage/irritation	: Not classified
2-methylpentane-2,4-diol (107-41-5)	
рН	6 – 8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
2,2'-oxydiethanol (111-46-6)	
NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
2,2'-oxydiethanol (111-46-6)	
LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight (OECD 407 method)
NOAEL (subacute, oral, animal/male, 28 days)	936 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	936 mg/kg bodyweight
2-methylpentane-2,4-diol (107-41-5)	
NOAEL (oral, rat, 90 days)	450 mg/kg bodyweight (OECD 408 method)
Aspiration hazard	: Not classified
2-methylpentane-2,4-diol (107-41-5)	
Viscosity, kinematic	36.957 mm²/s
<u> </u>	- 1

### 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

## 2,2'-oxydiethanol (111-46-6)

LC50 - Fish [1] 75200 mg/l Pimephales promelas

## Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

EC50 - Crustacea [1]	> 10000 mg/l EC50 24h - Daphnia magna [mg/l]	
EC50 96h - Algae [1]	6500 – 13000 mg/l Raphidocelis subcapitata	
EC50 96h - Algae [2]	9362 mg/l	
NOEC (chronic)	≥ 1000 mg/l	
2-methylpentane-2,4-diol (107-41-5)		
LC50 - Fish [1]	8690 mg/l	
LC50 - Fish [2]	10700 mg/l	
EC50 - Crustacea [1]	5410 mg/l Daphnia magna (Water flea)	
EC50 72h - Algae [1]	> 429 mg/l Raphidocelis subcapitata	
ErC50 algae	> 429 mg/l	

## 12.2. Persistence and degradability

Surface Tension Test Ink (Green) Dynes/cm 39-58		
Persistence and degradability	Rapidly degradable	
2,2'-oxydiethanol (111-46-6)		
Persistence and degradability	Rapidly degradable	
BOD (% of ThOD)	1.3 – 10 % ThOD	
Biodegradation	> 90 % (OECD 301A method)	
2-methylpentane-2,4-diol (107-41-5)		
Persistence and degradability	Rapidly degradable	

## 12.3. Bioaccumulative potential

2,2'-oxydiethanol (111-46-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.47
2-methylpentane-2,4-diol (107-41-5)	
Partition coefficient n-octanol/water (Log Pow)	0.58

## 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	2,2'-oxydiethanol (111-46-6), 2-methylpentane-2,4-diol (107-41-5)
regulation, in accordance with Annex XIII	
Substance(s) not meeting the vPvB criteria of REACH	2,2'-oxydiethanol (111-46-6), 2-methylpentane-2,4-diol (107-41-5)
regulation, in accordance with Annex XIII	

## 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

## Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID nu	ımber			
Not regulated for transport				
14.2. UN proper shipping	j name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard cl	lass(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 haza	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	n 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 no substance(s) listed on the REACH Candidate List

## **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)

# Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS Reference** 

02

## **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**

Indication of changes				
Section	Changed item	Comments		
	Supersedes version of	Modified		
	Revision date	Modified		
	Flammability	Modified		
2.1	Classification according to Regulation (EC) No.	Modified		
	1272/2008 [CLP]			
3	Composition/information on ingredients	Modified		
4.2	Symptoms/effects after inhalation	Added		
4.2	Symptoms/effects after skin contact	Added		
4.2	Symptoms/effects after ingestion	Added		
4.2	Symptoms/effects after eye contact	Added		
5.1	Unsuitable extinguishing media	Added		
5.2	Fire hazard	Added		
5.2	Explosion hazard	Added		
5.3	Firefighting instructions	Added		
6.1	Emergency procedures	Added		
6.1	Protective equipment	Added		
6.1	General measures	Added		
6.3	For containment	Added		
7.1	Additional hazards when processed	Added		
7.2	Technical measures	Added		
7.2	Packaging materials	Added		
7.2	Storage conditions	Modified		
8.2	Personal protective equipment	Added		
9.1	Melting point	Modified		
10.5	Incompatible materials	Added		
10.6	Hazardous decomposition products	Modified		
11.1	ATE CLP (oral)	Modified		
13.1	Product/Packaging disposal recommendations	Added		
13.1	Sewage disposal recommendations	Added		
13.1	Additional information	Added		
13.1	Regional waste regulation	Added		
13.1	European List of Waste (LoW, EC 2000/532)	Added		
16	Abbreviations and acronyms	Added		

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	

# Surface Tension Test Ink (Green) Dynes/cm 39-58

**SDS** Reference

02

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. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

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.