

**Trodat GmbH**  
**4600 Wels**

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**SECTION 1: Identification of the substance / preparation and of the company****1.1 Product identifier****Trodat Textile ink black****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Paint

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet****Company**

Trodat GmbH

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**Safety Data Sheet**

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**1.4 Emergency phone****Company**

+43 (0) 7242 239 - 0 Mo-Fr 8:00 - 16:00

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

No classification.

**2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**

No classification.

**2.2 Label elements****Labelling according to Regulation 67/548/EEC or 1999/45/EC**

The product does not require a hazard warning label in accordance with EC-directives.

**Hazard symbols**

none

**R-phrases**

none

**2.3 Other hazards****Environmental hazards**

Does not contain any PBT or vPvB substances.

**Other hazards**

Further hazards were not determined with the current level of knowledge.

**SECTION 3: Composition / Information on ingredients****3.1 Product-type:**

The product is a mixture.

| Range [%] | Substance   |
|-----------|---|
| 1 - <25   | 2,2'-oxybisethanol  |
|           | CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6 |
|           | GHS/CLP: Acute Tox. 4: H302                                     |
|           | EEC: Xn, R 22   |

**Comment on component parts**

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
 For full text of H-statements and R-phrases: see SECTION 16.

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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

|                     |   |
|---------------------|---|
| General information | Change soaked clothing immediately.   |
| Inhalation          | Ensure supply of fresh air.<br>In the event of symptoms seek for medical treatment.   |
| Skin contact        | When in contact with the skin, clean with soap and water.<br>Consult a doctor if skin irritation persists.  |
| Eye contact         | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice/attention. |
| Ingestion           | Seek medical advice immediately.<br>Rinse out mouth and give plenty of water to drink.<br>Do not induce vomiting.   |

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

Headache

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

Treat symptomatically.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | Extinguish blanket.<br>Carbon dioxide.<br>Foam. |
|------------------------------|---|

|   |                 |
|---|-----------------|
| Extinguishing media that must not be used | Full water jet. |
|---|-----------------|

##### 5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.  
Nitrogen oxides (NOx).  
Carbon monoxide (CO)

##### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.  
Ensure adequate ventilation.  
Keep away from all sources of ignition.

##### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

##### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

##### 6.4 Reference to other sections

See SECTION 8+13

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
The product is combustible.  
Do not eat, drink, smoke or take drugs at work.  
Wash face and/or hands before break and end of work.  
Use barrier skin cream.

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

Keep only in original container.  
Prevent penetration into the ground.  
Provide floor with bunding.  
Do not store together with oxidizing agents.  
Keep container in a well-ventilated place.  
Keep container tightly closed.  
Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (GB)

| Range [%] | Substance   |
|-----------|---|
| 40 - <60  | Propane-1,2-diol  |
|           | CAS: 57-55-6, EINECS/ELINCS: 200-338-0  |
|           | Long-term exposure: 150 ppm, 474 mg/m <sup>3</sup> , total vapour and particulates (particulates:TWA=10 mg/m <sup>3</sup> ) |
| 1 - <25   | 2,2'-oxybisethanol  |
|           | CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6   |
|           | Long-term exposure: 23 ppm, 101 mg/m <sup>3</sup>   |

### 8.2 Exposure controls

**Additional advice on system design** Ensure adequate ventilation on workstation.

**Eye protection** Safety glasses.

**Hand protection** Butyl rubber, >480 min (EN 374).  
The details concerned are recommendations. Please contact the glove supplier for further information.

**Skin protection** light protective clothing

**Other** Avoid contact with eyes and skin.  
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

**Respiratory protection** Breathing apparatus in the event of high concentrations.  
Short term: filter apparatus, combination filter A-P2.

**Thermal hazards** not applicable

**Delimitation and monitoring of the environmental exposition** See SECTION 6+7.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                    |
|---|--------------------|
| Form                                      | liquid             |
| Color                                     | black              |
| Odor                                      | characteristic     |
| Odour threshold                           | not determined     |
| pH-value                                  | not applicable     |
| pH-value [1%]                             | not determined     |
| Boiling point [°C]                        | not determined     |
| Flash point [°C]                          | > 60               |
| Flammability [°C]                         | not determined     |
| Lower explosion limit                     | not determined     |
| Upper explosion limit                     | not determined     |
| Oxidizing properties                      | no                 |
| Vapour pressure/gas pressure [kPa]        | not determined     |
| Density [g/ml]                            | not determined     |
| Bulk density [kg/m <sup>3</sup> ]         | not applicable     |
| Solubility in water                       | partially miscible |
| Partition coefficient [n-octanol/water]   | not determined     |
| Viscosity                                 | not determined     |
| Relative vapour density determined in air | not determined     |
| Evaporation speed                         | not determined     |
| Melting point [°C]                        | not determined     |
| Autoignition temperature [°C]             | not determined     |
| Decomposition temperature                 | not determined     |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

not determined

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Range [%] | Substance                          |
|-----------|------------------------------------|
| 1 - <25   | 2,2' -oxybisethanol, CAS: 111-46-6 |
|           | LD50, dermal, Rabbit: 11890 mg/kg. |
|           | LD50, oral, Rat: 12565 mg/kg.      |

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**Specific target organ toxicity — single exposure** not determined

**Specific target organ toxicity — repeated exposure** not determined

**Mutagenicity** There is no evidence of any mutagenic effects.

**Reproduction toxicity** There is no evidence of any reproductive toxicity effects.

**Carcinogenicity** There is no evidence of any carcinogenic effects.

#### General remarks

Toxicological data of complete product are not available.  
No classification on the basis of the calculation procedure of the preparation directive.  
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Range [%] | Substance                                 |
|-----------|---|
| 1 - <25   | 2,2' -oxybisethanol, CAS: 111-46-6        |
|           | EC50, (24h), Daphnia magna: > 10000 mg/l. |
|           | LC50, (96h), fish: > 1000 mg/l.           |

### 12.2 Persistence and degradability

**Behaviour in environment compartments** not determined

**Behaviour in sewage plant** not determined

**Biological degradability** not determined

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the authorities if necessary.  
Disposal in an incineration plant in accordance with the regulations of the local authorities.

#### Waste no. (recommended)

080112

#### Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.  
Uncontaminated packaging may be taken for recycling.

#### Waste no. (recommended)

150102

## SECTION 14: Transport information

### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

|  |   |
|--|---|
| EEC-REGULATIONS                              | 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC |
| TRANSPORT-REGULATIONS                        | DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).   |
| NATIONAL REGULATIONS (GB):                   | EH40/2005 Workplace exposure limits (Second edition, published December 2011).<br>CHIP 3/ CHIP 4  |
| - Observe employment restrictions for people | no  |
| - VOC (1999/13/CE)                           | ~ 55 %  |

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 R-phrases (SECTION 3)**

R 22: Harmful if swallowed.

**16.2 Hazard statements (SECTION 3)**

H302 Harmful if swallowed.

**16.3 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 TLV®/TWA = Threshold limit value – time-weighted average  
 TLV®STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.4 Other information**

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**Modified position**

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 deleted: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

SECTION 4 deleted: Gastro-intestinal complains.

SECTION 4 deleted: Vertigo

SECTION 7 been added: Prevent penetration into the ground.

SECTION 7 been added: Provide floor with bunding.

SECTION 11 been added: There is no evidence of any mutagenic effects.

SECTION 11 been added: There is no evidence of any reproductive toxicity effects.

SECTION 11 been added: There is no evidence of any carcinogenic effects.

SECTION 11 been added: No classification on the basis of the calculation procedure of the preparation directive.

SECTION 11 deleted: The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 2 been added: The product does not require a hazard warning label in accordance with EC-directives.

SECTION 2 deleted: Harmful

SECTION 2 deleted: R 22: Harmful if swallowed.

SECTION 2 deleted: S 23.3: Do not breathe vapour.

SECTION 2 deleted: S 24/25: Avoid contact with skin and eyes.

SECTION 13 deleted:

SECTION 13 deleted:

SECTION 13 been added:

SECTION 2 deleted: Acute Tox. 4

SECTION 2 deleted: WARNING

SECTION 2 deleted: Ausrufezeichen

SECTION 2 deleted: H302 Harmful if swallowed.

SECTION 2 deleted: Classification according to conversion table Annex VII 1272/2008/EC

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