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

Product identifier
7011 Trodat Ideal Blue

Relevant identified uses of the substance or mixture and uses advised against
Paint

Identified use
none

Company
Trodat GmbH
Linzerstr. 156
4600 Wels / AUSTRIA
Phone +43 (0) 7242 239 - 0
Fax +43 (0) 7242 239 - 940
Homepage www.trodat.net
E-mail trodat@trodat.net

Address enquires to
Emergency telephone number Advisory body +43 (0) 1 406 43 43 (24h)
Emergency telephone number Company +43 (0) 7242 239 - 0 Mo-Fr 8:00 - 16:00
Technical information trodat@trodat.net
Safety Data Sheet sdb@chemiebuero.de

SECTION 2: Hazards identification

Emergency Overview
Appearance, Odor: liquid, blue, characteristic

OSHA Regulatory Status
This product is classified as non-hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

Potential health effects

Potential environmental effects
Does not contain any PBT or vPvB substances.

SECTION 3: Composition / Information on ingredients

The product is a mixture.

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>CAS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - &lt; 30</td>
<td>Glycerol</td>
<td>56-81-5</td>
</tr>
<tr>
<td>15 - &lt; 20</td>
<td>2,2'-oxybisethanol</td>
<td>111-46-6</td>
</tr>
<tr>
<td>1 - &lt; 5</td>
<td>C.I. Pigment Blue (29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper)</td>
<td>147-14-8</td>
</tr>
<tr>
<td>1 - &lt; 5</td>
<td>Acid Blue 9 (C.I. 42090)</td>
<td>3844-45-9</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>Acid Violet 17 (C.I. 42650)</td>
<td>4129-84-4</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>Arylethylphenylpolyglykolether</td>
<td>104376-75-2</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>Alcohol C13 iso, ethoxylated</td>
<td>9043-30-5</td>
</tr>
</tbody>
</table>

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.
### SECTION 4: First aid measures

**Description of first aid measures**

- **Inhalation**: Take off contaminated clothing and wash before reuse. Ensure supply of fresh air. In the event of symptoms seek for medical treatment.

- **Skin contact**: When in contact with the skin, clean with soap and water. 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. If eye irritation persists: Get medical advice/attention.

- **Ingestion**: Seek medical advice immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

**Indication of any immediate medical attention and special treatment needed**

- Treat symptomatically.

### SECTION 5: Fire-fighting measures

**Suitable extinguishing media**

- Extinguish blanket.
- Carbon dioxide.
- Foam.

**Extinguishing media that must not be used**

- Full water jet.

**Special exposure hazards arising from the substance or preparation itself or combustion products**

- Carbon monoxide (CO)
- Risk of formation of toxic pyrolysis products.
- Nitrogen oxides (NOx).
- Sulphur oxides (SOx).

**Special protective equipment for firefighters**

- Use self-contained breathing apparatus.

**Additional information**

- Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

**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.

**Environmental precautions**

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

**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.

### SECTION 7: Handling and storage

**Precautions for safe handling**

- Use only in well-ventilated areas.

**Requirements for storage rooms and vessels**

- Keep only in original container. Prevent penetration into the ground. Provide floor with bunding.

**Advice on storage compatibility**

- Do not store together with oxidizing agents.

**Further information on storage conditions**

- Keep container in a well-ventilated place. Keep container tightly closed. Protect from heat/overheating.
### SECTION 8: Exposure controls / personal protection

Additional advice on system design
Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored (US)

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - &lt; 30</td>
<td>Glycerol</td>
</tr>
</tbody>
</table>

CAS: 56-81-5, EINECS/ELINCS: 200-289-5
Long-term exposure: 15 mg/m³, (mist) total dust

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

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

Eye protection
If there is a risk of splashing:
Safety glasses.

Skin protection
light protective clothing

General protective measures
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.

Hygiene measures
Take off contaminated clothing and wash before reuse.
Do not eat, drink or smoke when using this product.
Wash face and/or hands before break and end of work.
Use barrier skin cream.

Delimitation and monitoring of the environmental exposition
Comply with applicable environmental regulations limiting discharge to air, water and soil.

### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>blue</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-value</td>
<td>not determined</td>
</tr>
<tr>
<td>pH-value [1%]</td>
<td>not determined</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>&gt; 146</td>
</tr>
<tr>
<td>Flammability [°C]</td>
<td>ca. 225</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no</td>
</tr>
<tr>
<td>Vapour pressure/gas pressure [kPa]</td>
<td>ca. 0.01 (20 °C)</td>
</tr>
<tr>
<td>Density [g/ml]</td>
<td>not determined</td>
</tr>
<tr>
<td>Bulk density [kg/m³]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>completely miscible</td>
</tr>
<tr>
<td>Partition coefficient [n-octanol/water]</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not determined</td>
</tr>
<tr>
<td>Relative vapour density determined in air</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation speed</td>
<td>not determined</td>
</tr>
<tr>
<td>Melting point [°C]</td>
<td>not determined</td>
</tr>
<tr>
<td>Autoignition temperature [°C]</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition temperature [°C]</td>
<td>not determined</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

Reactivity
No dangerous reactions known if used as directed.

Chemical stability
Stable under normal ambient conditions (ambient temperature).

Possibility of hazardous reactions
Reactions with oxidizing agents.

Conditions to avoid
See SECTION 7.2.

Incompatible materials
No information available.

Hazardous decomposition products
No hazardous decomposition products known.

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>LD50, oral, Rat: &gt;5000 mg/kg bw.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1</td>
<td>Arylethylphenylpolyglykolether, CAS: 104376-75-2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15 - &lt; 20</th>
<th>2,2'-oxybisethanol, CAS: 111-46-6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LD50, oral, Rat: 12565 mg/kg.</td>
</tr>
<tr>
<td></td>
<td>LD50, dermal, Rabbit: 11890 mg/kg.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>20 - &lt; 30</th>
<th>Glycerol, CAS: 56-81-5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LD50, dermal, Rabbit: &gt; 18700 mg/kg (IUCLID).</td>
</tr>
<tr>
<td></td>
<td>LD50, oral, Rat: 12600 mg/kg (IUCLID).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&lt; 1</th>
<th>Acid Violet 17 (C.I. 42650), CAS: 4129-84-4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LD50, oral, Rat: &gt; 5000 mg/kg.</td>
</tr>
</tbody>
</table>

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
not determined

Reproduction toxicity
not determined

Carcinogenicity
not determined

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.
Safety Data Sheet (SDS) conforms to ANSI Z400.1/Z129.1-2010 (29 CFR 1910) (US)

Trodat GmbH
4600 Wels

SECTION 12: Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1</td>
<td>Arylethylphenylpolyglykolether, CAS: 104376-75-2</td>
</tr>
<tr>
<td></td>
<td>LC50, (96h), Danio rerio: 17.8 mg/L.</td>
</tr>
<tr>
<td>20 - &lt; 30</td>
<td>Glycerol, CAS: 56-81-5</td>
</tr>
<tr>
<td></td>
<td>LC50, (24h), Carassius auratus: &gt; 5000 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (72h), Bacteria: &gt; 10000 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (48h), Algae: &gt; 2900 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (24h), Daphnia magna: &gt; 10000 mg/l.</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>Acid Violet 17 (C.I. 42650), CAS: 4129-84-4</td>
</tr>
<tr>
<td></td>
<td>LC50, (96h), Leuciscus idus: 1 - 10 mg/l.</td>
</tr>
<tr>
<td></td>
<td>EC50, (3h), Bacteria: &gt; 100 mg/l (OECD 209).</td>
</tr>
</tbody>
</table>

Behaviour in environment compartments: not determined
Behaviour in sewage plant: not determined
Bacteria toxicity: not determined
Biological degradability: not determined
COD: not determined
BOD 5: not determined

Other adverse effects: No classification on the basis of the calculation procedure of the preparation directive. Ecological data of complete product are not available.

SECTION 13: Disposal considerations

Product: Coordinate disposal with the authorities if necessary.
Contaminated packaging: Packaging that cannot be cleaned should be disposed of as for product.
RCRA Hazard Class (40CFR 261): Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

SECTION 14: Transport information

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”
DOT Road Shipment Information (49 CFR): NOT CLASSIFIED AS “DANGEROUS GOODS”
SECTION 15: Regulatory information

US Regulations

National regulations
- SARA, 302
  This product is not classified as hazardous under SARA 302.
- SARA, 311
  This product is not classified as hazardous under SARA 311.
- SARA, 313
  This product is not classified as hazardous under SARA 313.
- CA Proposition 65
  No chemical substances in this material are named on the California P65 list.
- TSCA
  All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
- FDA
  not applicable

American Conference of Governmental Industrial Hygienists - ACGIH
Ingredients not listed as carcinogens.

International Agency for Research on Cancer IARC
IARC: Not classifiable as to carcinogenicity to humans.

National Toxicology Program - NTP
- Diethylene glycol (Testing Status)
- Glycerol (Testing Status)

HAP-VOC
This product does not contain HAP's.

Transport-regulations

Other Right to Know Laws

EC Regulations

1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

Hazard pictograms
none

Signal word
none

Hazard statements
none

Labelling

Hazard symbols
none

R-phrases
none

S-phrases
none

Special labelling
Safety data sheet available for professional user on request.

SECTION 16: Other information

Observe employment restrictions for people
none

HMIS Ratings

| HEALTH | 1* - Slight chronic Hazard |
| FLAMMABILITY | 1 - Slight Hazard |
| REACTIVITY | 0 - Minimal Hazard |
| PERSONAL PROTECTION | X - Personal protection rating to be supplied by user depending on use conditions |

NFPRA Ratings

| TOP, FLAMMABILITY: 1 - Slight Hazard |
| LEFT, HEALTH: 1* - Slight chronic Hazard |
| RIGHT, REACTIVITY: 0 - Minimal Hazard |
| BOTTOM, SPECIAL NOTICE: - |

Modified position
none