

Trod

Trod

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

1.1 Product identifier

Trod

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

1.2.1 Relevant uses

Stamp colour

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Trodat GmbH
Linzerstr. 156
4600 Wels / AUSTRIA
Phone +43 (0) 7242 239 - 0
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Homepage www.trod

Address enquiries to

Technical information trodat@trodat.net
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product does not require a hazard in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

Hazard pictograms none
Signal word none
Hazard statements none
Precautionary statements none

2.3 Other hazards

Environmental hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

| Range [%] | Substance |
|-----------|----------------------------------------|
| 30 - 40 | Glycerol CAS: 56-81-5 |
| 20 - 30 | Polyethylene glycol CAS: 25322-68-3 |

Comment on component parts No dangerous components.
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information | Take off contaminated clothing and wash before reuse. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek 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. |

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

| | |
|--------------------------------------------------|---------------------------------------------------|
| Suitable extinguishing media | foam, dry powder, water spray jet, carbon dioxide |
| Extinguishing media that must not be used | Full water jet. |

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x).

5.3 Advice for firefighters

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

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Keep away from all sources of ignition.
High risk of slipping due to leakage/spillage of product.
Wear suitable protective equipment. For personal protection see SECTION 8.

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid contact with eyes and skin. Use personal protective equipment.

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.

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 (US)

| |
|--------------------------------------------------------------|
| Substance |
| Glycerol |
| CAS: 56-81-5 |
| Long-term exposure: 15 mg/m ³ , (mist) total dust |

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8.2 Exposure controls

| | |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional advice on system design | Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | If there is a risk of splashing: Safety glasses. (EN 166:2001) |
| Hand protection | > 0,11 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | light protective clothing Avoid contact with eyes and skin. Keep out of the reach of children. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| Respiratory protection | Not required under normal conditions. In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. |
| Thermal hazards | not applicable |
| 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

9.1 Information on basic physical and chemical properties

| | |
|------------------------------------------------|---------------------------|
| Physical state | liquid |
| Color | green |
| Odor | characteristic |
| Odor threshold | No information available. |
| pH-value | No information available. |
| pH-value [1%] | No information available. |
| Boiling point [°C] | No information available. |
| Flash point [°C] | > 93 °C / > 199 °F |
| Flammability [°C] | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidizing properties | no |
| Vapor pressure/gas pressure [kPa] | No information available. |
| Density [g/cm³] | No information available. |
| Relative density | No information available. |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | completely miscible |
| Solubility other solvents | No information available. |
| Partition coefficient [n-octanol/water] | not applicable |
| Kinematic viscosity | No information available. |
| Relative vapour density | No information available. |
| Evaporation speed | No information available. |
| Melting point [°C] | No information available. |
| Auto-ignition temperature | No information available. |
| Decomposition temperature [°C] | No information available. |
| Particle characteristics | not applicable |

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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

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

In the event of fire: See SECTION 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

| |
|------------------------------------------------------------------------------------------|
| Product |
| Based on the information available, the classification criteria have not been fulfilled. |
| Substance |
| Glycerol, CAS: 56-81-5 |
| LD50, oral, Rat, 12600 mg/kg |
| Polyethylene glycol, CAS: 25322-68-3 |
| LD50, oral, Rat, > 15000 mg/kg |

Acute dermal toxicity

| |
|------------------------------------------------------------------------------------------|
| Product |
| Based on the information available, the classification criteria have not been fulfilled. |
| Substance |
| Glycerol, CAS: 56-81-5 |
| LD50, dermal, Rabbit, > 10000 mg/kg |
| Polyethylene glycol, CAS: 25322-68-3 |
| LD50, dermal, Rabbit, > 20000 mg/kg |

Acute inhalational toxicity

| |
|------------------------------------------------------------------------------------------|
| Product |
| Based on the information available, the classification criteria have not been fulfilled. |
| Substance |
| Glycerol, CAS: 56-81-5 |
| LC50, inhalative, Rat, > 570 mg/m ³ 1h |

Serious eye damage/irritation Based on the information available, the classification criteria have not been fulfilled.

| |
|--------------------------------------|
| Substance |
| Glycerol, CAS: 56-81-5 |
| non-irritating |
| Polyethylene glycol, CAS: 25322-68-3 |
| no adverse effect observed |

Skin corrosion/irritation Based on the information available, the classification criteria have not been fulfilled.

| |
|--------------------------------------|
| Substance |
| Glycerol, CAS: 56-81-5 |
| non-irritating |
| Polyethylene glycol, CAS: 25322-68-3 |
| no adverse effect observed |

Respiratory or skin sensitisation Based on the information available, the classification criteria have not been fulfilled.

| |
|------------------------|
| Substance |
| Glycerol, CAS: 56-81-5 |

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inhalative, no adverse effect observed

dermal, no adverse effect observed

Polyethylene glycol, CAS: 25322-68-3

no adverse effect observed

Specific target organ toxicity — single exposure Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure Based on the information available, the classification criteria have not been fulfilled.

Mutagenicity Based on the information available, the classification criteria have not been fulfilled.

Substance

Polyethylene glycol, CAS: 25322-68-3

no adverse effect observed

Reproduction toxicity Based on the information available, the classification criteria have not been fulfilled.

Substance

Polyethylene glycol, CAS: 25322-68-3

NOAEL, oral, Rat, 5000 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEL, oral, Rat, 5699 mg/kg bw/d (Effect on fertility), no adverse effect observed

Carcinogenicity Based on the information available, the classification criteria have not been fulfilled.

Aspiration hazard Based on the information available, the classification criteria have not been fulfilled.

General remarks

Toxicological data of complete product are not available.
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**

Substance

Glycerol, CAS: 56-81-5

LC50, (24h), fish, > 5000 mg/l

EC50, (16h), Pseudomonas putida, > 10000 mg/l

EC50, (24h), Daphnia magna, > 10000 mg/l

Polyethylene glycol, CAS: 25322-68-3

LC50, (96h), fish, 87209 mg/l

EC50, (48h), Daphnia magna, 53484 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability CAS 56-81-5: The product is readily biodegradable.
CAS 25322-68-3: The product is readily biodegradable.

12.3 Bioaccumulative potential

No information available.

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12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Coordinate disposal with the authorities if necessary.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

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

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

DOT Road Shipment Information (49 CFR) not applicable

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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" |
| DOT Road Shipment Information (49 CFR) | NOT CLASSIFIED AS "DANGEROUS GOODS" |

14.3 Transport hazard class(es)

| | |
|------------------------------------------|----------------|
| Transport by land according to ADR/RID | not applicable |
| Inland navigation (ADN) | not applicable |
| Marine transport in accordance with IMDG | not applicable |
| Air transport in accordance with IATA | not applicable |
| DOT Road Shipment Information (49 CFR) | not applicable |

14.4 Packing group

| | |
|------------------------------------------|----------------|
| Transport by land according to ADR/RID | not applicable |
| Inland navigation (ADN) | not applicable |
| Marine transport in accordance with IMDG | not applicable |
| Air transport in accordance with IATA | not applicable |
| DOT Road Shipment Information (49 CFR) | not applicable |

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

DOT Road Shipment Information (49 CFR) no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

No information available.

- SARA, 311

This product is not classified as hazardous under SARA 311.

- SARA, 313

< 1% Phenoxy Ethanol (CAS 122-99-6), listed as Glycol ethers.

- CA Proposition 65

not determined.

- 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

No information available.

International Agency for Research on Cancer IARC

No information available.

National Toxicology Program - NTP

No information available.

HAP-VOC

< 1% Phenoxy Ethanol (CAS 122-99-6), listed as Glycol ethers.

Transport-regulations

DOT-Classification, ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;
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;
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
CFR = Code of Federal Regulations;
CPR = Controlled Products Regulations;
DMEL = Derived Minimum Effect Level;
DNEL = Derived No Effect Level;
DOT = Department of Transportation;
EC50 = Median effective concentration;
EPA = Environmental Protection Agency;
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;
IARC = International Agency of Research on Cancer;
IATA = International Air Transport Association;
TSCA = Toxic Substance Control Act;
HMIS = Hazardous Materials Identification System;
NFPA = National Fire Protection Association;
NIOSH = National Institute for Occupational Safety and Health;
OSHA = Occupational Safety and Health Administration;
LC50 = Lethal concentration, 50%;
LD50 = Median lethal dose, 50%;
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;
SARA = Superfund Amendments and Reauthorization Act;
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;

16.2 Ratings

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NFPA Ratings



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

HMIS Ratings

| | |
|---------------------|---|
| HEALTH | 0 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |

0 - Minimal Hazard
1 - Slight Hazard
0 - Minimal Hazard
X - Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A - Safety Glasses
- B - Safety Glasses and Gloves
- C - Safety Glasses, Gloves and Protection Apron
- D - Face Shield, Gloves and Protection Apron
- E - Safety Glasses, Gloves and Dust Respirator
- F - Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G - Safety Glasses, Gloves and Vapor Respirator.
- H - Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I - Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J - Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K - Airline Mask or Hood, Gloves, Full Suit and Boots.
- X - Personal protection rating to be supplied by user depending on use conditions

Modified position

none



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