

Trodat GmbH
4600 Wels

Date printed 20.09.2022, Revision 20.09.2022

Version 03. Supersedes version: 02

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

1.1 Product identifier

Trodat Ultimark Ink Black

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

1.2.1 Relevant uses

Ink

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
Fax +43 (0) 7242 239 - 940
Homepage www.trodat.net
E-mail trodat@trodat.net

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 is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

Hazard pictograms None

Signal word None

Hazard statements None

Precautionary statements None

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling EUH210 Safety data sheet available on request.

2.3 Other hazards

Human health dangers May cause irritation of eye and skin.

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.
Contains no ingredients with endocrine-disrupting properties.

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

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SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
86 - 88	Polypropylene glycol CAS: 25322-69-4
8 - 9	Carbon black CAS: 1333-86-4
4 - 5	Ethanol CAS: 64-17-5

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: see SECTION 16.

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

No information available.

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.
Carbon dioxide.
Foam.

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)

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.
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.
The normal safety precautions for handling chemicals must be observed.

The product is combustible.
Ground/bond container and receiving equipment.

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.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Keep container in a well-ventilated place.
Keep container tightly closed.
Protect from heat/overheating and from sun.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance
Ethanol
CAS: 64-17-5
Long-term exposure: 1000 ppm, 1900 mg/m ³ , OSHA, NIOSH

DNEL

Substance
Polypropylene glycol, CAS: 25322-69-4
Industrial, dermal, Long-term - systemic effects, 13.9 mg/kg bw/day
Industrial, inhalative, Long-term - local effects, 10 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 98 mg/m ³
general population, oral, Long-term - systemic effects, 8.3 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 8.3 mg/kg bw/day
general population, inhalative, Long-term - local effects, 10 mg/m ³
general population, inhalative, Long-term - systemic effects, 29 mg/m ³

PNEC

Substance
Polypropylene glycol, CAS: 25322-69-4
soil, 30.6 - 109 µg/kg soil dw
sediment (seawater), 41.9 - 76.5 µg/kg sediment dw
sediment (freshwater), 419 - 765 µg/kg sediment dw
sewage treatment plants (STP), 100 mg/L
seawater, 10 - 20 µg/L
freshwater, 100 - 200 µg/L

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	Not required under normal conditions. If there is a risk of splashing: Safety glasses. (EN 166:2001)
Hand protection	> 0.11 mm. Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340) Avoid contact with eyes and skin. 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Color	black
Odor	characteristic
Odor threshold	No information available.
pH-value	Not applicable
pH-value [1%]	Not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 130 °C / 266 °F
Flammability [°C]	Not applicable
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/cm ³]	1.0
Relative density	Not determined
Bulk density [kg/m ³]	Not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	< -30 °C / < -22 °F
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

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 recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with strong acids and alkalies.
Reactions with metals.
Reactions with peroxides.

10.4 Conditions to avoid

Strong heating.
Sunlight

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10.5 Incompatible materials

See SECTION 10.3.

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

Substance
Polypropylene glycol, CAS: 25322-69-4
LD50, oral, Rat, 1000 mg/kg bw
Ethanol, CAS: 64-17-5
LD50, oral, Rabbit, 7060 mg/kg

Acute dermal toxicity

Substance
Polypropylene glycol, CAS: 25322-69-4
LD50, dermal, Rabbit, 2000 - 16320 mg/kg bw
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit, 7430 mg/kg

Acute inhalational toxicity

Substance
Polypropylene glycol, CAS: 25322-69-4
LC50, inhalative, Rat, 83 mg/m ³ air, 8h
Ethanol, CAS: 64-17-5
LC50, inhalative, Rat, 37620 mg/m ³ /10h

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

Substance
Ethanol, CAS: 64-17-5
adverse effect observed

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

Substance
Ethanol, CAS: 64-17-5
no adverse effect observed

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

Substance
Ethanol, CAS: 64-17-5
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.

Substance
Polypropylene glycol, CAS: 25322-69-4
NOAEL, oral, Rat, 200 - 2100 mg/kg bw/day
NOAEC, inhalative, Rat, 1 - 2.2 mg/L air

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

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

Substance
Ethanol, CAS: 64-17-5
NOAEL, oral, mouse, 20700 mg/kg bw/d (Effect on fertility), no adverse effect observed
NOAEC, inhalative, Rat, 30400 mg/m ³ (Effect on developmental toxicity), no adverse effect observed

Carcinogenicity Carbon black is classified as IARC 2B. Printing inks are not classifiable as to their carcinogenicity to humans (IARC Group 3).
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
Polypropylene glycol, CAS: 25322-69-4
LC50, (96h), fish, 100 - 1000 mg/L
EC50, (72h), Algae, 100 mg/L
EC50, (48h), Invertebrates, 100 - 109 mg/L
NOEC, (21d), Invertebrates, 10 mg/L
Ethanol, CAS: 64-17-5
LC50, (48h), Daphnia sp., > 100 mg/l
LC50, (96h), fish, > 100 mg/l
EC50, (96h), Algae, > 100 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability CAS 64-17-5: 94% (OECD 301E) - Biodegradable.

12.3 Bioaccumulative potential

CAS 64-17-5: log Pow -0.31 (Lit.)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

Does not contain any relevant substances fulfilling the classification criteria.

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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

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"

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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

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

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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 This product is not classified as hazardous under SARA 302.
- SARA, 311 Not applicable
- SARA, 313 This product is not classified as hazardous under SARA 313.
- CA Proposition 65



WARNING: This product can expose you to chemicals including "Carbon black (airborne, unbound particles of respirable size)", which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
- FDA No information available.
- American Conference of Governmental Industrial Hygienists - ACGIH Carbon black - A4: Not classifiable as a human carcinogen.

International Agency for Research on Cancer IARC Carbon black - IARC: Group 2B carcinogen

National Toxicology Program - NTP Carbon black (in the form of colloidal particles that rapidly form aggregate) - is named in the NTP - National Toxicology Program.

HAP-VOC VOC-content: 5%
This product does not contain HAP's.

Transport-regulations DOT-Classification, ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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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: 1 - Slight Hazard
RIGHT, REACTIVITY: 0 - Minimal Hazard
BOTTOM, SPECIAL NOTICE: -

HMIS Ratings

HEALTH	1*
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

1* - Slight chronic 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

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 11 been added: Does not contain any relevant substances fulfilling the classification criteria.

SECTION 12 been added: Does not contain any relevant substances fulfilling the classification criteria.



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