

Trotec Laser GmbH

4614 Marchtrenk

Date printed 11.01.2024, Revision 11.01.2024

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

**TroLase**  
**TroLase Metallic**  
**TroLase Metallic Plus**  
**TroLase Thins**  
**TroLase Foil**

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Laser engraved article

**1.2.2 Uses advised against**

None known.

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

**Company** Trotec Laser GmbH  
 Freilinger Straße 99  
 4614 Marchtrenk / AUSTRIA  
 Phone +43 (0)72 42 239-7777  
 Fax +43 (0) 72 42 239-7380  
 Homepage [www.troteclaser.com](http://www.troteclaser.com)  
 E-mail [trotec@troteclaser.com](mailto:trotec@troteclaser.com)

**Address enquiries to**

**Technical information** [trotec@troteclaser.com](mailto:trotec@troteclaser.com)  
**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)  
 Safety data sheets are available from the supplier.

**1.4 Emergency telephone number**

**Company** +43 (0)72 42 239-7777

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

No classification.

**2.2 Label elements**

This product is defined as an "article" based on OSHA definition of an article (c). Therefore, this product is exempt from requirements of the hazard communication standard, 29 CFR1910.1200 (HCS 2012), hence a Safety-Data-Sheet is not required in accordance to HCS2012 (b)(6) and the sheets are supplied as a service. This Safety-Data-Sheet contains valuable information critical to the safe handling and proper use of the product.

**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.  
 Contains no ingredients with endocrine-disrupting properties ( $\geq 0,1\%$ ).

**Other hazards** None

**SECTION 3: Composition / Information on ingredients****3.1 Substances**

Not applicable

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**3.2 Mixtures**

The product is an article.

<b>Comment on component parts</b>	No dangerous components. Metallized and pigmented lacquer coating
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**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>General information</b>	In the event of symptoms seek medical treatment.
<b>Inhalation</b>	No special measures necessary. After inhalation of vapours of product which can set free by thermal processing: Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. In case of burning: After contact with molten product cool quickly with cold water or sterile salt solution and protect with gauze. Get medical advice.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Not applicable

**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**

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	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 (CO<sub>2</sub>)

**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.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Dispose of absorbed material in accordance with the regulations.

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**6.4 Reference to other sections**

See SECTION 8+13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

During mechanical processing vacuuming at processing machines is necessary.  
 During thermal processing vacuuming at processing machines is necessary.  
 The normal safety precautions for handling of molten, heated products must be observed.

The product is combustible.  
 Take precautionary measures against static discharges.

Wash hands before breaks and after work.  
 Do not eat, drink, smoke or take drugs at work.

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

Do not store together with acids and alkalis.  
 Do not store together with oxidizing agents.

Keep in a well-ventilated place.  
 Keep in a cool place. Store in a dry place.  
 Protect from heat/overheating and from sun.

**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)**

Not applicable

**8.2 Exposure controls**

**Additional advice on system design** Ensure adequate ventilation on workstation.  
 Use suitable discharges or exhaust ventilation if heat treatment is intended.  
 Protection adapted to the manipulation of the fused product (danger of burning).

**Eye protection** Not required under normal conditions.

**Hand protection** Suitable protective gloves.

**Skin protection** Not required under normal conditions.

**Other** Avoid contact with eyes and skin.  
 Do not inhale vapors.

**Respiratory protection** Respiratory protection in the case of thermal processing.  
 Short term: filter apparatus, combination filter A-P2.

**Thermal hazards** See SECTION 7.

**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	Solid
Form	Solid in different forms
Color	various
Odor	characteristic
Odor threshold	Not applicable
pH-value	Not applicable
pH-value [1%]	Not applicable
Boiling point or initial boiling point and boiling range [°C]	No information available.
Flash point [°C]	Not applicable
Flammability	not flammable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Oxidizing properties	No
Vapor pressure/gas pressure [kPa]	Not applicable
Density [g/cm <sup>3</sup> ]	No information available.
Relative density	Not determined
Bulk density [kg/m <sup>3</sup> ]	Not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	Not applicable
Relative vapour density	Not applicable
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	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 normal ambient conditions (ambient temperature).

**10.3 Possibility of hazardous reactions**

Reactions with strong acids and alkalis.  
 Reactions with oxidizing agents.

**10.4 Conditions to avoid**

Strong heating.  
 Avoid temperatures above 300 °C / 572 °F.

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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 case of heating following (decomposition) products may occur:

Carbon oxides, Acrylates, Methacrylates, Hazardous organic compounds.

Toxic gases/vapors.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity****Acute dermal toxicity****Acute inhalational toxicity****Serious eye damage/irritation**

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

**Skin corrosion/irritation**

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

**Respiratory or skin sensitisation**

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

**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.

**Reproduction toxicity**

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

**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**

Risk of mechanical irritation.

May cause irritation of eye (vapors/fumes).

May cause respiratory tract irritation (vapors/fumes).

Toxicological data of complete product are not available.

**SECTION 12: Ecological information****12.1 Toxicity****12.2 Persistence and degradability****Behaviour in environment  
compartments**

No information available.

**Behaviour in sewage plant**

Can be separated out mechanically in purification plants.

**Biological degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

Does not contain any relevant substances fulfilling the classification criteria.

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**12.7 Other adverse effects**

The product is insoluble in water.  
Ecotoxicological data are not available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

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

**Contaminated packaging**

Contaminated packing should be disposed of as product waste.  
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 Not applicable
- SARA, 311 Not applicable
- SARA, 313 Not applicable
- CA Proposition 65



WARNING: This product can expose you to chemicals including "2-propenoic acid, ethyl ester (CAS 140-88-5)", which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

- 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 Not applicable
- International Agency for Research on Cancer IARC Not applicable
- National Toxicology Program - NTP Not applicable
- HAP-VOC Not applicable
- Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

**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: 20.NFPA.X0

**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**

1.3, 2.2, 2.3, 3.2, 8.1, 9.1, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3



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