

Trotec Laser GmbH

4600 Wels

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****TroLase Textures****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**Laser engraved article  
Mechanic engraving**1.2.2 Uses advised against**

None known.

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

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**Safety Data Sheet**

**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 an article and therefore it does not require labelling according to EC directives [REACH/CLP].

**2.3 Other hazards**

**Human health dangers** For thermal decomposition to high temperature are formed irritating smoke.

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

The product is an article.

Range [%]	Substance
~ 100	Poly(methyl methacrylate-co-ethyl acrylate) CAS: 9010-88-2, EINECS/ELINCS: Polymer

**Comment on component parts**

No dangerous components.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

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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>	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>	In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists. In case of burning: After contact with molten product cool quickly with cold water or sterile salt solution and protect with gauze.
<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**

**Suitable extinguishing media** Carbon dioxide.  
Dry powder.  
Water spray jet.

**Extinguishing media that must not be used** Full water jet.

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

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Acrylic monomers.

**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**

Ensure adequate ventilation.  
Wear suitable protective equipment. For personal protection see SECTION 8.

**6.2 Environmental precautions**

No special measures necessary.

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

Take up mechanically.  
Dispose of absorbed material in accordance with 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**

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.  
 Dust can form an explosive mixture with air.  
 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**

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 (GB)**

not applicable

**8.2 Exposure controls****Additional advice on system design**

Use suitable discharges or exhaust ventilation if heat treatment is intended.  
 Protection adapted to the manipulation of the fused product (danger of burning).  
 Pay attention to dust limit value (ACGHI-2011: 10 mg/m<sup>3</sup> particle inhalable; 3 mg/m<sup>3</sup> particle respirable).  
 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**

In the case of thermal processing:  
 Tightly fitting goggles. (EN 166:2001)  
 In the event of dust formation:  
 Tightly fitting goggles. (EN 166:2001)

**Hand protection**

Gloves (heat-resistant).  
 The details concerned are recommendations. Please contact the glove supplier for further information.

**Skin protection**

Protective clothing.

**Other**

Avoid contact with eyes and skin.  
 Do not inhale smokes formed during heat treatment.

**Respiratory protection**

Respiratory protection in the case of thermal processing.  
 Respiratory protection in the case of dust formation.  
 Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

**Thermal hazards**

yes

**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**

<b>Form</b>	Plastic plates solid in different forms
<b>Color</b>	various
<b>Odor</b>	faintly
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	> 250
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not applicable
<b>Density [g/ml]</b>	1,15 - 1,20 (20 °C / 68,0 °F)
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Partition coefficient [n-octanol/water]</b>	not applicable
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	~ 132
<b>Autoignition temperature [°C]</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	> 250

**9.2 Other information**

Erweichungspunkt: ~ 95 °C

**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**

No hazardous reactions known.

**10.4 Conditions to avoid**

Avoid temperatures above > 30°C.  
Decomposes begins at > 250 °C.

**10.5 Incompatible materials**

No information available.

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**10.6 Hazardous decomposition products**

For thermal decomposition to high temperature are formed irritating smoke.

In the case of heating following (decomposition) products may occur:

Oxide of carbon (CO<sub>x</sub>)

Styrene.

Acrylic monomers.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

<b>Serious eye damage/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	Risk of mechanical irritation. May cause irritation of eye (vapours/fumes). May cause respiratory tract irritation (vapours/fumes). Toxicological data of complete product are not available.

**SECTION 12: Ecological information****12.1 Toxicity****12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	Can be separated out mechanically in purification plants.
<b>Biological degradability</b>	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 Other adverse effects**

The product is insoluble in water.

Ecotoxicological data are not available.

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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**

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

**Waste no. (recommended)**

070213

**Contaminated packaging**

Contaminated packing should be disposed of as product waste.  
Uncontaminated packaging may be taken for recycling.

**Waste no. (recommended)**150102  
150101**SECTION 14: Transport information****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

**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)**

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

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**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

**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

**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**

**EEC-REGULATIONS** 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people none

- VOC (1999/13/CE) 0 %

**15.2 Chemical safety assessment**

not applicable

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**SECTION 16: Other information****16.1 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

**16.2 Other information****Classification procedure****Modified position**

none