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

1.1 Product identifier

Vollholz

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

Company
Trotec Laser GmbH
Linzer Str. 156
4600 Wels / AUSTRIA
Phone +43 (0)72 42 239-7777
Fax +43 (0) 72 42 239-7380
Homepage www.troteclaser.com
E-mail trotec@troteclaser.com

Address enquiries to
Technical information trotec@troteclaser.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +43 (0)72 42 239-7777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

not determined

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 toxic, irritating and inflammable smoke.
Risk of mechanical irritation.

SECTION 3: Composition / Information on ingredients

Product-type:
The product is an article.

Comment on component parts
Solid wood panels, glue, oil.
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 In the event of symptoms seek medical treatment.

   Inhalation After inhalation of vapors of product which can set be free by thermal processing:
   Remove the victim into fresh air and keep him calm.
   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 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 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.

5.3 Advice for firefighters
   Use self-contained breathing apparatus.
   Do not inhale explosion and/or combustion gases.
   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
   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 within the regulations.

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.
Avoid contact with eyes and skin. Use personal protective equipment.
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
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

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.
Pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ 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 (EN 388), category II.
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 dust.
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.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid wood panels</td>
</tr>
<tr>
<td></td>
<td>solid in different forms</td>
</tr>
<tr>
<td>Color</td>
<td>various</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH-value</td>
<td>not applicable</td>
</tr>
<tr>
<td>pH-value [1%]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas) [°C]</td>
<td>hardly inflammable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>no</td>
</tr>
<tr>
<td>Vapour pressure/gas pressure [kPa]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density [g/ml]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density [kg/m³]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient [n-octanol/water]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not applicable</td>
</tr>
<tr>
<td>Relative vapour density determined in air</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation speed</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Autoignition temperature [°C]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition temperature [°C]</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

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

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

For thermal decomposition to high temperature are formed toxic, irritating and inflammable smoke.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

- Serious eye damage/irritation: Based on the available information, the classification criteria are not fulfilled.
- Skin corrosion/irritation: Based on the available information, the classification criteria are not fulfilled.
- Respiratory or skin sensitisation: Based on the available information, the classification criteria are not fulfilled.
- Specific target organ toxicity — single exposure: Based on the available information, the classification criteria are not fulfilled.
- Specific target organ toxicity — repeated exposure: Based on the available information, the classification criteria are not fulfilled.
- Mutagenicity: Based on the available information, the classification criteria are not fulfilled.
- Reproduction toxicity: Based on the available information, the classification criteria are not fulfilled.
- Carcinogenicity: Based on the available information, the classification criteria are not fulfilled.
- Aspiration hazard: Based on the available information, the classification criteria are not fulfilled.
- General remarks: Risk of mechanical irritation. 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

Not applicable

12.6 Other adverse effects

The product is insoluble in water. Ecotoxicological data are not available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material cannot be determined 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)**

030105

**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
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


- Observe employment restrictions for people: none
- VOC (2010/75/CE): 0 %

15.2 Chemical safety assessment

not applicable
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
ATE = acute toxicity estimate
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
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
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

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