SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

- **Product name:** TRANSCOPY LIQUID
- **Cat. No.** 40900090, 40900092
- **CAS-No.:** 141-78-6
- **EC No.:** 205-500-4
- **REACH Reg. No:** 01-2119475103-46-xxxx
- **Container size:** 40 ml

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

- **Application:** Replication system for materialographic surfaces.

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

- **Supplier:** Struers Australia
  - 27 Mayneview Street
  - Milton QLD 4064, Australia
- **Responsible for safety data sheet authoring:** DHI
- **Any questions to the contents of this safety data sheet should be sent to:** struers@struers.dk

**Emergency telephone number**

- +61 7 3512 9600
- (Only during office hours)
SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

WHS:
- Flammable liquid - Category 2
- Serious eye damage/eye irritation - Category 2
- Specific target organ toxicity (single exposure) - Category 3 (narcotic effects)

Label elements

Danger

H225 | Highly flammable liquid and vapour.
H319 | Causes serious eye irritation.
H336 | May cause drowsiness or dizziness.
AUH066 | Repeated exposure may cause skin dryness or cracking.
P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P271 | Use only outdoors or in a well-ventilated area.
P280 | Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 | Dispose of contents/container in accordance with local regulations.

Other hazards
The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures. Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain.

PBT/vPvB: No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances
The product contains: solvents.

WHS:

<table>
<thead>
<tr>
<th>%</th>
<th>CAS-No.</th>
<th>EC No.</th>
<th>REACH Reg. No:</th>
<th>Chemical name:</th>
<th>Hazard classification:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>141-78-6</td>
<td>205-500-4</td>
<td>01-2119475103-46-xxxx</td>
<td>Ethyl acetate</td>
<td>Flam. Liq. 2;H225   Eye Irrit. 2;H319  STOT SE 3;H336 EUH066</td>
<td></td>
</tr>
</tbody>
</table>

References: The full text for all hazard statements is displayed in section 16.
SECTION 4: FIRST AID MEASURES

Description of first aid measures

Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards: Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

Advice for firefighters

Protective equipment for firefighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Protective equipment: Do not smoke or use open fire, or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. For personal protection, see section 8. (*)

Emergency procedures: No specific recommendations. For personal protection, see section 8. (*)

Environmental precautions

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Absorb spillage with non-combustible, absorbent material.

Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of vapours and contact with skin and eyes. Observe good chemical hygiene practices.

Technical measures: Do not smoke or use open fire or other sources of ignition. Take precautionary measures against static discharges.

Technical precautions: Mechanical ventilation may be required. Provide easy access to water supply and eye wash facilities.

Conditions for safe storage, including any incompatibilities


Storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents.

Specific end use(s)

Specific use(s): No information available.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.:</th>
<th>Chemical name:</th>
<th>As:</th>
<th>Exposure limits:</th>
<th>Type:</th>
<th>Notes:</th>
<th>References:</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-78-6</td>
<td>Ethyl acetate</td>
<td>-</td>
<td>200 ppm</td>
<td>720 mg/m³</td>
<td>TWA</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>400 ppm</td>
<td>1440 mg/m³</td>
<td>STEL</td>
<td>15min</td>
</tr>
</tbody>
</table>

Exposure controls

Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of vapours. An eye wash bottle must be available at the work site.

Personal protection: Personal protection equipment should be chosen according to relevant AS/NZS standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2.

Hand protection: Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Wear face shield if there is risk of splashes.

Skin protection: Wear apron or protective clothing in case of splashes.

Hygiene measures: Wash hands after handling.

Environmental Exposure Controls: Not available.
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

(*)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong>:</td>
<td>Liquid.</td>
</tr>
<tr>
<td><strong>Colour</strong>:</td>
<td>Colourless.</td>
</tr>
<tr>
<td><strong>Odour</strong>:</td>
<td>odour of alcohol</td>
</tr>
<tr>
<td><strong>Odour threshold</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Melting point</strong>:</td>
<td>-83°C</td>
</tr>
<tr>
<td><strong>Boiling point</strong>:</td>
<td>77°C</td>
</tr>
<tr>
<td><strong>Flash point</strong>:</td>
<td>-4°C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong>:</td>
<td>2,1-11,5 vol%</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong>:</td>
<td>93 hPa (20°C)</td>
</tr>
<tr>
<td><strong>Vapour density</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong>:</td>
<td>0,9</td>
</tr>
<tr>
<td><strong>Solubility</strong>:</td>
<td>partly soluble in water</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong>:</td>
<td>0,73 (20°C)</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature (°C)</strong>:</td>
<td>460°C</td>
</tr>
<tr>
<td><strong>Decomposition temperature (°C)</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong>:</td>
<td>Dynamic viscosity: 0,44 mPa*s (20°C)</td>
</tr>
<tr>
<td><strong>Explosive properties</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong>:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Other information**

**Other data:** Volatile Organic Compound (VOC): 902 g/l (calculated)
SECTION 10: STABILITY AND REACTIVITY

Reactivity
Reactivity: No data available.

Chemical stability
Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions
Hazardous Reactions: No data available.

Conditions to avoid
Conditions/materials to avoid: Avoid heat, flames and other sources of ignition.

Incompatible materials
Incompatible materials: Strong oxidising substances.

Hazardous decomposition products
Hazardous decomposition products: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute Toxicity (Oral): Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met. National Toxicology Program (NTP): No. I.A.R.C. Monographs: No.
Reproductive Toxicity: Based on available data, the classification criteria are not met.
STOT - Single exposure: May cause drowsiness or dizziness.
STOT - Repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
Inhalation: Vapours and spray mist may irritate throat and respiratory system and cause coughing. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact: Prolonged contact may cause redness, irritation and dry skin.
Ingestion: May irritate and cause malaise.
Specific effects: Prolonged or frequent inhalation of vapours in high concentrations may cause permanent damage to the nervous system, including the brain.
SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Ecotoxicity: The environmental hazard of the product is considered to be limited.

Persistence and degradability
Degradability: The degradability of the product has not been stated.

Bioaccumulative potential
Bioaccumulative potential: Partition coefficient (n-octanol/water): 0.73 (20°C)

Mobility in soil
Mobility: No data available.

Results of PBT and vPvB assessment
PBT/vPvB: No information available.

Other adverse effects
Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste from residues: Dispose of waste and residues in accordance with local authority requirements. For personal protection, see section 8.
Hazardous characteristics of waste: H3 (Flammable liquids) (*)
Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.
SECTION 14: TRANSPORT INFORMATION

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA).

**UN number**

UN-No: 1173

**UN proper shipping name**

Proper Shipping Name: ETHYL ACETATE

Additional IMDG information:
EmS: F-E, S-D
MFAG: 1

**Transport hazard class(es)**

Class: 3

**Packing group**

PG: II

**Environmental hazards**

Marine pollutant: No.
Environmentally Hazardous substance: No.

**Special precautions for user**

Special precautions: None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Transport in bulk: Not relevant.

SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Special provisions: AICS: Listed.

National regulation:
- Work Health and Safety Regulations 2011, with amendments.
- The Industrial Chemicals (Notification and Assessment) Act 1989, as amended.
- Hazardous Waste (Regulation of Exports and Imports) Act 1989, with amendments.
SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 6, 9, 13.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Additional information: Classification according to WHS Regulations 2011:
Calculation method.

Wording of H-statements:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.