

SAFETY DATA SHEET



Product name: TRANSCOPY LIQUID
Revision Date: 2018-11-09
Document No.: M0001

Page: 1/10
Print date: 2018-11-09
SDS-ID: AU-EN/19.0

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: 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

Australian Poisons Information Centre: 13 11 26.

+61 7 3512 9600
(Only during office hours)

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	2/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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:

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

References: The full text for all hazard statements is displayed in section 16.

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	3/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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 fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	4/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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

Technical measures for safe storage: Follow rules for flammable liquids.

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.

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	5/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

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

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.

SAFETY DATA SHEET

Product name: TRANSCOPY LIQUID
Revision Date: 2018-11-09
Document No.: M0001

Page: 6/10
Print date: 2018-11-09
SDS-ID: AU-EN/19.0

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

(*)

<u>Form:</u>	Liquid.
<u>Colour:</u>	Colourless.
<u>Odour:</u>	odour of alcohol
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	Not available.
<u>Melting point:</u>	-83°C
<u>Boiling point:</u>	77°C
<u>Flash point:</u>	-4°C
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosion limits:</u>	2,1-11,5 vol%
<u>Vapour pressure:</u>	93 hPa (20°C)
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	0,9
<u>Solubility:</u>	partly soluble in water
<u>Partition coefficient (n-octanol/water):</u>	0,73 (20°C)
<u>Auto-ignition temperature (°C):</u>	460°C
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Dynamic viscosity: 0,44 mPa*s (20°C)
<u>Explosive properties:</u>	Not available.
<u>Oxidising properties:</u>	Not available.
<u>Other information</u>	
<u>Other data:</u>	Volatile Organic Compound (VOC): 902 g/l (calculated)

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	7/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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.

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	8/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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.

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	9/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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.
National model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011), with amendments.
National model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (2011), with amendments.
Workplace exposure standards for airborne contaminants (2018).
The Industrial Chemicals (Notification and Assessment) Act 1989, as amended.
Hazardous Waste (Regulation of Exports and Imports) Act 1989, with amendments.

SAFETY DATA SHEET

Product name:	TRANSCOPY LIQUID	Page:	10/10
Revision Date:	2018-11-09	Print date:	2018-11-09
Document No.:	M0001	SDS-ID:	AU-EN/19.0

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.

Allan Vorup

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.
www.dhigroup.com.