

# SAFETY DATA SHEET



Product name:	PROTECTING LAQUER	Page:	1/11
Revision Date:	2019-01-09	Print date:	2019-01-09
Document No.:	M0033	SDS-ID:	AU-EN/18.0

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

### Product identifier

Product name: PROTECTING LAQUER  
Cat. No. 49900012

Container size: 400 ml

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

Application: For protection of materialographic specimens.

### 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)

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## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

WHS:

- Flammable aerosol - Category 1
- Serious eye damage/eye irritation - Category 2
- Specific target organ toxicity (single exposure) - Category 3 (narcotic effects)
- Chronic hazard to the aquatic environment - Category 3

### Label elements



Danger

Contains: Acetone  
Solvent naphtha (petroleum), light arom.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

AUH066 Repeated exposure may cause skin dryness or cracking.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P280 Wear protective gloves, eye and 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.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

### Other hazards

The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

PBT/vPvB: No information available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: organic solvent, binders and propellants.

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## 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>
25-<50	67-64-1	200-662-2	01-2119471330-49-xxxx	Acetone	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336 EUH066	
12.5-<20	74-98-6	200-827-9	01-2119486944-21-xxxx	Propane	Flam. Gas 1;H220 Press. Gas	U
12.5-<20	106-97-8	203-448-7	01-2119474691-32-xxxx	Butane	Flam. Gas 1;H220 Press. Gas	C; U
5-<10	108-65-6	203-603-9	01-2119475791-29-xxxx	2-Methoxy-1-methylethyl acetate	Flam. Liq. 3;H226	
5-<10	64742-95-6	265-199-0	01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom.	Flam. Liq. 3;H226 STOT SE 3;H335 STOT SE 3;H336 Asp. Tox. 1;H304 Aquatic Chronic 2;H411 EUH066	P
5-<10	75-28-5	200-857-2	01-2119485395-27-xxxx	Isobutane	Flam. Gas 1;H220 Press. Gas	C; U
2.5-<5	1330-20-7	215-535-7	01-2119488216-32-xxxx	Xylene	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315	C
2.5-<5	123-86-4	204-658-1	01-2119485493-29-xxxx	n-Butyl acetate	Flam. Liq. 3;H226 STOT SE 3;H336 EUH066	
<2,5	100-41-4	202-849-4	01-2119489370-35-xxxx	Ethylbenzene	Flam. Liq. 2;H225 Acute Tox. 4;H332 STOT RE 2;H373H Asp. Tox. 1;H304	

Notes: P: Benzene < 0,1%

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

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## 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. Cool containers exposed to heat with water spray and remove container, if no risk is involved.  
Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

**Specific hazards:** The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Aerosol containers can explode when heated, due to excessive pressure build-up.

### Advice for firefighters

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

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## 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 aerosols 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: Avoid discharge into water courses or onto the ground.

### Methods and material for containment and cleaning up

Spill Cleanup Methods: Large quantities should not be discharged into the drain but removed with absorbing material. Do not use sawdust or other combustible 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.

Technical precautions: Mechanical ventilation may be required.

### Conditions for safe storage, including any incompatibilities

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

Storage conditions: Store in a cool and well-ventilated place. Avoid contact with oxidising agents.

### Specific end use(s)

Specific use(s): No information available.

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## 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>
1330-20-7	Xylene (o-, m-, p-isomers)	-	80 ppm	350 mg/m3	TWA	-	WES
		-	150 ppm	655 mg/m3	STEL	15min	
123-86-4	n-Butyl acetate	-	150 ppm	713 mg/m3	TWA	-	WES
		-	200 ppm	950 mg/m3	STEL	15min	
108-65-6	1-Methoxy-2-propanol acetate	-	50 ppm	274 mg/m3	TWA	Sk	WES
		-	100 ppm	548 mg/m3	STEL	Sk; 15min	
67-64-1	Acetone	-	500 ppm	1185 mg/m3	TWA	-	WES
		-	1000 ppm	2375 mg/m3	STEL	15min	
100-41-4	Ethyl benzene	-	100 ppm	434 mg/m3	TWA	-	WES
		-	125 ppm	543 mg/m3	STEL	15min	
74-98-6	Propane	-				Asphyxiant	WES
106-97-8	Butane	-	800 ppm	1900 mg/m3	TWA	-	WES

Notes:

Sk: Skin absorption.

### Exposure controls

#### Engineering measures:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours and spray mist. Provide easy access to water supply or an emergency shower.

#### Personal protection:

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Respiratory equipment:

In case of inadequate ventilation: Use respiratory equipment with combination filter, type AX/P2.

#### 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 goggles/face shield.

#### Skin protection:

Wear apron or protective clothing in case of contact.

#### Environmental Exposure Controls:

Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

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<u>Form:</u>	Aerosol.
<u>Odour:</u>	Characteristic.
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	Not available.
<u>Melting point:</u>	Not available.
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	Not available.
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosion limits:</u>	1,5-13,0 vol%
<u>Vapour pressure:</u>	8300 hPa (20°C)
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	0,77
<u>Solubility:</u>	Insoluble in water (<1%).
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Not available.
<u>Explosive properties:</u>	Not available.
<u>Oxidising properties:</u>	Not available.
<b><u>Other information</u></b>	
<u>Other data:</u>	Volatile Organic Compound (VOC): 683 g/l (calculated)

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## 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 exposing aerosol containers to high temperatures or direct sunlight.

### Incompatible materials

Incompatible materials: No information available.

### Hazardous decomposition products

Hazardous decomposition products: No information 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.  
IARC Cancer Review: Group 2B for Ethylbenzene.  
IARC Cancer Review: Group 3 for Xylenes.

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.

Skin contact: Repeated exposure may cause skin dryness or cracking.

Ingestion: Delayed symptoms include nausea, vomiting, headache and dizziness.

Specific effects: Frequent inhalation of even small concentrations may cause irritability, fatigue and memory failure and eventually permanent damage to the nervous system, including the brain. IARC Cancer Review: Group 3 for Xylenes.

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## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects. The product contains volatile, organic compounds which have a photochemical ozone creation potential.

### Persistence and degradability

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

### Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

### 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. Do not puncture or incinerate even when empty.

Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements. Empty aerosol containers before disposal.

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## SECTION 14: TRANSPORT INFORMATION

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

### UN number

UN-No: 1950

### UN proper shipping name

Proper Shipping Name: AEROSOLS

Additional IMDG information:

EmS: F-D, S-U

MFAG: 1

### Transport hazard class(es)

Class: 2.1

### Packing group

PG: -

### 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: Not available.

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).

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## 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.

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:

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373H	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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](http://www.dhigroup.com).