

Product name:	PROTECTING LAQUER	Page:	1/12
Revision Date:	2019-01-09	Print date:	2019-01-09
Document No.:	M0033	SDS-ID:	CA-EN/18.0

1. IDENTIFICATION

Product identifier

Product name: PROTECTING LAQUER
Cat. No. 49900012

Container size: 400 ml

Recommended use and restrictions on use

Application: For protection of materialographic specimens.

Details of the supplier of the safety data sheet

Supplier: Struers Ltd
7275 West Credit Avenue
Ontario L5N 5M9 Mississauga
Canada
Tel: +1 (905) 8148855

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

Alberta & NWT:
Poison & Drug Information Service (PADIS): 1-800-332-1414
British Columbia:
Drug and Poison Information Centre (DPIC): 604-682-5050 / 1-800-567-8911
Ontario:
Poison Centre: 1-800-268-9017
Québec:
Poison Control Centre: 1-800-463-5060

Infotrac:
1-800-535-5053
Struers CAN:
+1 (905) 8148855
(Only during office hours)

2. HAZARDS IDENTIFICATION

Classification of the hazardous product

WHMIS 2015: Flammable Aerosols — Category 1
Eye Irritation — Category 2
Specific Target Organ Toxicity — Single Exposure — Category 3 (narcotic effects)
Aquatic Chronic Toxicity — Category 3

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Label elements



Danger

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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	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.
P261	Avoid breathing gas, fume, vapours or spray.
P264	Wash contaminated skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

Other hazards

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

PBT/vPvB: No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: organic solvent, binders and propellants.

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WHMIS 2015:

<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	Flammable Liquids Category 2 Eye Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3	
12.5-<20	74-98-6	200-827-9	01-2119486944-21-xxxx	Propane	Flammable Gases Category 1 Gases Under Pressure	U
12.5-<20	106-97-8	203-448-7	01-2119474691-32-xxxx	Butane	Flammable Gases Category 1 Gases Under Pressure	C; U
5-<10	108-65-6	203-603-9	01-2119475791-29-xxxx	2-Methoxy-1-methylethyl acetate	Flammable Liquids Category 3	
5-<10	64742-95-6	265-199-0	01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom.	Flammable Liquids Category 3 Specific Target Organ Toxicity Single Exposure Category 3 Specific Target Organ Toxicity Single Exposure Category 3 Aspiration Hazard Category 1 Aquatic Chronic Toxicity Category 2	P
5-<10	75-28-5	200-857-2	01-2119485395-27-xxxx	Isobutane	Flammable Gases Category 1 Gases Under Pressure	C; U
2.5-<5	1330-20-7	215-535-7	01-2119488216-32-xxxx	Xylene	Flammable Liquids Category 3 Acute (Inhalation) Toxicity Category 4 Acute (Dermal) Toxicity Category 4 Skin Irritation Category 2	C
2.5-<5	123-86-4	204-658-1	01-2119485493-29-xxxx	n-Butyl acetate	Flammable Liquids Category 3 Specific Target Organ Toxicity Single Exposure Category 3	
<2,5	100-41-4	202-849-4	01-2119489370-35-xxxx	Ethylbenzene	Flammable Liquids Category 2 Acute (Inhalation) Toxicity Category 4 Category 2 Target organ toxicant, Repeated ExposureH Aspiration Hazard Category 1	

Notes: P: Benzene < 0,1%

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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 take along 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.

5. FIRE-FIGHTING 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.

Specific hazards arising from the hazardous product

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

Advice for fire-fighters

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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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 vapors 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 items

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

7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of vapors 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 oxidizing agents.

Specific end-use(s)

Specific use(s): No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Other provincial OEL's may apply.

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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>
67-64-1	Acetone	-	500 ppm	1200 mg/m3	TWA	-	Alberta
		-	750 ppm	1800 mg/m3	STEL	15min	
67-64-1	Acetone	-	250 ppm		TWA	-	BC
		-	500 ppm		STEL	-	
67-64-1	Acetone	-	750 ppm	1780 mg/m3	TWA	-	Quebec
		-	1000 ppm	2380 mg/m3	STEL	15min	
106-97-8	Butane	-	800 ppm	1900 mg/m3	TWA	-	Quebec
74-98-6	Propane	-	1000 ppm		TWA	-	Alberta
74-98-6	Propane	-	1000 ppm		TWA	-	BC
74-98-6	Propane	-	1000 ppm	1800 mg/m3	TWA	-	Quebec
100-41-4	Ethyl benzene	-	100 ppm	434 mg/m3	TWA	-	Alberta
		-	125 ppm	543 mg/m3	STEL	15min	
100-41-4	Ethyl benzene	-	100 ppm		TWA	2B	BC
		-	125 ppm		STEL	2B;	
100-41-4	Ethyl benzene	-	100 ppm	434 mg/m3	TWA	-	Quebec
		-	125 ppm	543 mg/m3	STEL	15min	
106-97-8	Butane	-	1000 ppm		TWA	-	Alberta
106-97-8	n-Butane	-	600 ppm		TWA	-	BC
		-	750 ppm		STEL	-	
106-97-8	Aliphatic hydrocarbon gases - Butane, all isomers	-	800 ppm		TWA	Ont	Ontario
108-65-6	1-Methoxypropyl-2-acetate	-	50 ppm		TWA	-	BC
		-	75 ppm		STEL	-	
108-65-6	Propylene glycol monomethyl ether acetate	-	50 ppm	270 mg/m3	TWA	Ont	Ontario
1330-20-7	Xylene (o-,m-,p-isomers)	-	100 ppm	434 mg/m3	TWA	-	Alberta
		-	150 ppm	651 mg/m3	STEL	15min	
1330-20-7	Xylene (o, m, p isomers)	-	100 ppm		TWA	-	BC
		-	150 ppm		STEL	-	

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Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize 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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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

(*)

<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.
<u>Other information</u>	
<u>Other data:</u>	Volatile Organic Compound (VOC): 683 g/l (calculated)

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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.

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 sensitization: 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: Vapors 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.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

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.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not puncture or incinerate even when empty.

Contaminated packaging: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Empty aerosol containers before disposal.

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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

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15. REGULATORY INFORMATION

Safety, health and environmental regulations specific to the product

Special provisions: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.
DSL: All chemicals included in the product are DSL listed or exempt.

National regulation: Hazardous Products Regulations, with amendments.
Canadian Environmental Protection Act, Reporting for the Domestic Substances List (DSL), with amendments.
U.S. Department of health and human services: 2011 - Report on Carcinogens - 12th Edition.
International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.
British Columbia: Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, with amendments (2015).
Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments (2016).
Quebec: Regulation respecting the quality of the work environment, with amendments (2013-12-13).
Alberta: Occupational Health and Safety Code 2009.

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.



Additional information: Classification according to WHMIS 2015:
Calculation method.

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.