

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

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

1.1 Product identifier

Trade name **Acryl-Spraylack** **4125e:**
mat
black

Product number 96313

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

Relevant identified uses Coating material for commercial or consumer end-uses.

Uses advised against Any use not listed above.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG
Bergwerkstraße 22
A-6130 Schwaz
Austria

Telephone: +4352426922713
e-mail: sdb-info@adler-lacke.com

Further information obtainable from: sdb-info@adler-lacke.com

Telephone
+43 5242 6922-713
Mon - Thu 07:00 AM - 04:25 PM
Fri 07:00 AM - 12:15 PM

1.4 Emergency telephone number

Country	Name	Telephone
United Kingdom	Guy's & St Thomas' Poisons Unit	+44 (0)20 7188 0100

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Hazard class	Category	Hazard class and category	Hazard statement
aerosols	1	Aerosol 1	H222,H229
serious eye damage/eye irritation	2	Eye Irrit. 2	H319
specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling

- Signal word danger

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:**- Pictograms**

GHS02, GHS07

**- Hazard statements**

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

- Precautionary statements

P102 Keep out of reach of children.
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.
P271 Use only outdoors or in a well-ventilated area.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents, container in accordance with national regulations.

- Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Keep out of reach of children. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- Hazardous ingredients for labelling

acetone, n-butyl acetate, 2-methoxy-1-methyl-ethyl acetate, propan-2-ol

2.3 Other hazards

Keep out of reach of children and do not empty into the drains. Dispose remainders properly (collection of hazardous waste, disposal companies). Empty containers must be entered into the recycling system. The usual safety precautions must be observed during processing of the product.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Alkyd resin and cellulose nitrate with additives in organic solvents and propellant gas.

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Name of substance	Identifier	Wt%	Classification acc. to GHS
acetone	CAS No 67-64-1	25 – < 50	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336
dimethyl ether	CAS No 115-10-6	10 – < 25	Flam. Gas 1 / H220 Press. Gas C / H280
n-butyl acetate	CAS No 123-86-4	10 – < 25	Flam. Liq. 3 / H226 STOT SE 3 / H336
propane liquefied	CAS No 74-98-6	10 – < 25	Flam. Gas 1 / H220 Press. Gas L / H280
butane	CAS No 106-97-8	5 – < 10	Flam. Gas 1 / H220 Press. Gas L / H280
2-methoxy-1-methylethyl acetate	CAS No 108-65-6	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336
isobutane	CAS No 75-28-5	3 – < 5	Flam. Gas 1 / H220 Press. Gas C / H280
cellulose nitrate	CAS No 9004-70-0	1 – < 3	Flam. Sol. 2 / H228
ethanol	CAS No 64-17-5	1 – < 3	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319
xylene, mixed isomers, pure	CAS No 1330-20-7	1 – < 3	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 STOT RE 2 / H373 Asp. Tox. 1 / H304
titanium dioxide	CAS No 13463-67-7	1 – < 3	Carc. 2 / H351
propan-2-ol	CAS No 67-63-0 1174921-73-3	1 – < 3	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
xylene, mixed isomers, pure	-	-	1,100 mg/kg 11 mg/l/4h	dermal inhalation: vapour

For full text of abbreviations: see SECTION 16. This mixture contains ≥ 1% titanium dioxide (CAS 13463-67-7). The Annex VI classification of Titanium dioxide does not apply to this mixture according to its Note 10.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Take off contaminated clothing. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Do not use any solvents or thinners!.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Keep at rest. IF SWALLOWED: Immediately call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

BC-powder, Water spray, Alcohol resistant foam, Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Thick smoke may occur in case of a fire. Inhaling the decomposed products may cause serious damage to health. The formation of explosive dust-air-mixtures is possible. Upon contact with air, the vapours may form an explosive mixture. . Combustible.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Fill contaminated material in the original container or any other suitable one and dispose it in accordance with point 13.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Use explosion-proof electrical/ventilating/lighting/equipment.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Keep away from sources of ignition - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Do not spray on an open flame or other ignition source. Protect from sunlight.

Control of effects

Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. . Close the open container carefully and keep it straight to prevent leakage. Store in the original container. Storage temperature of 0 °C/32 °F and up to 50 °C/122 °F.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
EU	2-methoxy-1-methylethyl	108-65-6	IOEL V	50	275	100	550			H	2000/39/EC

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
	acetate										
EU	dimethyl ether	115-10-6	IOEL V	1,000	1,920						2000/39/EC
EU	n-butyl acetate	123-86-4	IOEL V	50	241	150	723				2019/1831/EU
EU	xylene	1330-20-7	IOEL V	50	221	100	442			H	2000/39/EC
EU	acetone	67-64-1	IOEL V	500	1,210						2000/39/EC
GB	butane	106-97-8	WEL	600	1,450	750	1,810				EH40/2005
GB	1-methoxy-2-propyl acetate	108-65-6	WEL	50	274	100	548				EH40/2005
GB	dimethyl ether	115-10-6	WEL	400	766	500	958				EH40/2005
GB	butyl acetate	123-86-4	WEL	150	724	200	966				EH40/2005
GB	xylene, mixture of isomers	1330-20-7	WEL	50	220	100	441				EH40/2005
GB	titanium dioxide	13463-67-7	WEL		10					i	EH40/2005
GB	titanium dioxide	13463-67-7	WEL		4					r	EH40/2005
GB	ethanol	64-17-5	WEL	1,000	1,920						EH40/2005
GB	propan-2-ol	67-63-0	WEL	400	999	500	1,250				EH40/2005
GB	acetone	67-64-1	WEL	500	1,210	1,500	3,620				EH40/2005

Notation

Ceiling-C

H

i

r

STEL

TWA

ceiling value is a limit value above which exposure should not occur

absorbed through the skin

inhalable fraction

respirable fraction

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
GB	xylene, mixture of isomers	methylhippuric acids	crea	BMGV	650 mmol/mol	EH40/2005

Notation
crea creatinine

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
acetone	67-64-1	DNEL	1,210 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	2,420 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	186 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-methoxy-1-methylethyl acetate	108-65-6	DNEL	275 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-methoxy-1-methylethyl acetate	108-65-6	DNEL	550 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2-methoxy-1-methylethyl acetate	108-65-6	DNEL	796 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
propan-2-ol	67-63-0 1174921-73-3	DNEL	871 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
propan-2-ol	67-63-0 1174921-73-3	DNEL	77 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethanol	64-17-5	DNEL	950 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ethanol	64-17-5	DNEL	343 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
xylene, mixed isomers, pure	1330-20-7	DNEL	221 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene, mixed isomers, pure	1330-20-7	DNEL	442 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
xylene, mixed isomers, pure	1330-20-7	DNEL	221 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
xylene, mixed isomers, pure	1330-20-7	DNEL	442 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
xylene, mixed isomers, pure	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
acetone	67-64-1	PNEC	10.6 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetone	67-64-1	PNEC	1.06 mg/l	aquatic organisms	marine water	short-term (single instance)
acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
acetone	67-64-1	PNEC	30.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetone	67-64-1	PNEC	3.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetone	67-64-1	PNEC	29.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.155 mg/l	aquatic organisms	freshwater	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.016 mg/l	aquatic organisms	marine water	short-term (single instance)
dimethyl ether	115-10-6	PNEC	160 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.681 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.069 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.045 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.635 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.064 mg/l	aquatic organisms	marine water	short-term (single instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	3.29 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.329 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
xylene, mixed isomers, pure	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN 166).

Skin protection

- Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use protective gloves made of butyl rubber as spray protection for short-term work. Material strength: 0.5mm, penetration time $\geq$ 480 min.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. Combination filtering device (EN 141). Particulate filter device (EN 143). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Physical state	liquid, solid, gaseous (spray aerosol)
Colour	black
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	-161.5 °C at 1,013 hPa
Flammability	flammable aerosol in accordance with GHS criteria

Lower and upper explosion limit

Lower explosion limit (LEL)	1.1 vol%
Upper explosion limit (UEL)	26.2 vol%
Flash point	not determined
Auto-ignition temperature	not applicable
pH (value)	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	8,300 hPa at 20 °C
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Density and/or relative density

Density	0.7 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (aerosol)
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Other safety parameters

Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:**9.2 Other information**

Information with regard to physical hazard classes

Aerosols

- Components (flammable)	92.7 %
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity**10.1 Reactivity**

The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
xylene, mixed isomers, pure	1330-20-7	dermal	1,100 mg/kg
xylene, mixed isomers, pure	1330-20-7	inhalation: vapour	11 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.7 Other adverse effects

Data are not available.

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

- Product

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

- Packagings

15 01 10* packaging containing residues of or contaminated by hazardous substances

Disposal methods:

Product

Waste production should be avoided or minimised if possible.

Do not empty into the drains. Avoid releasing the product into the environment. Waste, containers must be removed, disposed in a safe way.

Packagings

Waste production should be avoided or minimised if possible.

Packaging waste should be recycled. Burning or landfilling should only be considered if recycling is not feasible.

Notes on disposal:

Product

Disposal of this product and its dissolutions and by-products must be carried out in accordance with the environmental protection requirements and waste disposal laws as well as the requirements of the local authorities at all times. Excess must be handed over, disposed to a recognised waste disposal company (disposal company/recycling company).

Packagings

With the aid of the information provided in this safety data sheet, the responsible authorities must be consulted regarding classification of empty containers, packaging. Empty containers should be disposed, recycled according to type. Licenced containers, packaging can be disposed free of charge via system partners, where applicable. Containers with residual contents must be disposed in accordance with local and national legal provisions.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR/RID	AEROSOLS
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Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable
14.3 Transport hazard class(es)	
ADR/RID	2 (2.1)
IMDG-Code	2.1
ICAO-TI	2.1
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6 Special precautions for user	
Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7 Maritime transport in bulk according to IMO instruments	
The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information

Classification code	5F
Danger label(s)	2.1
	
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information

Classification code	5F
Danger label(s)	2.1
	
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	23

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -
Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
EmS F-D, S-U
Stowage category -

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 2.1



Special provisions (SP) A145, A167
Excepted quantities (EQ) E0
Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
P3a	flammable aerosols (containing Flam. Gas or Flam. Liq.)	150 500	46)

Notation

46) 'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1
Note: qualifying quantity = net

Deco-Paint Directive

VOC content	90.2 % 640 g/l
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Industrial Emissions Directive (IED)

VOC content	90.2 % 631.4 g/l
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
ethanol		a)	
titanium dioxide		a)	
titanium dioxide		a)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
acetone	67-64-1	Annex II			

Legend

annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

Regulation on drug precursors

Name of substance	CAS No	Classification	CN Code	Threshold level
acetone	67-64-1	Category 3	2914 11 00	

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

Name of substance	CAS No	Listed in	HS code
acetone	67-64-1	Table II	2914.11

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.2		Uses advised against: Any use not listed above.	yes
1.3	Details of the supplier of the safety data sheet: Manufacturer/Supplier: ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG Bergwerkstraße 22 A-6130 Schwaz Austria	Details of the supplier of the safety data sheet: Manufacturer/Supplier: ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG Bergwerkstraße 22 A-6130 Schwaz Austria Telephone: +4352426922713 e-mail: sdb-info@adler-lacke.com	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		- Supplemental hazard information: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: acetone, n-butyl acetate	- Hazardous ingredients for labelling: acetone, n-butyl acetate, 2-methoxy-1-methylethyl acetate, propan-2-ol	yes
2.3	Other hazards	Other hazards: Keep out of reach of children and do not empty into the drains. Dispose remainders properly (collection of hazardous waste, disposal companies). Empty containers must be entered into the recycling system. The usual safety precautions must be observed during processing of the product.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
5.2	Hazardous combustion products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)	Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2)	yes
7.2	Control of effects: Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. . Close the open container carefully and keep it straight to prevent leakage. Store in the original container. Storage temperature of 0 °C/32 °F and up to 50 °C/122 °F.	Control of effects: Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. . Close the open container carefully and keep it straight to prevent leakage. Store in the original container. Storage temperature of 0 °C/32 °F and up to 50 °C/122 °F.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Biological limit values: change in the listing (table)	yes

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
8.2	Eye/face protection: Use safety goggle with side protection.	Eye/face protection: Use safety goggle with side protection (EN 166).	yes
8.2	Hand protection: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use butyl rubber gloves for protection against liquid splashes during brief working operations.	Hand protection: Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use protective gloves made of butyl rubber as spray protection for short-term work. Material strength: 0.5mm, penetration time $\geq$ 480 min.	yes
9.1	Appearance		yes
9.1	Physical state: aerosol (spray aerosol)	Physical state: liquid, solid, gaseous (spray aerosol)	yes
9.1	Lower explosion limit (LEL): 1.2 vol%	Lower explosion limit (LEL): 1.1 vol%	yes
9.1	Upper explosion limit (UEL): 15 vol%	Upper explosion limit (UEL): 26.2 vol%	yes
9.1	Evaporation rate: not determined		yes
9.1	pH (value)	pH (value): not determined	yes
9.1		Density and/or relative density	yes
9.1	Density: 0.78 g/cm^3 at 20 °C	Density: 0.7 g/cm^3 at 20 °C	yes
9.1	Vapour density: this information is not available		yes
9.1	Viscosity: not relevant (aerosol)		yes
9.1		Relative vapour density: information on this property is not available	yes
9.1		Particle characteristics: not relevant (aerosol)	yes
9.1	Oxidising properties: none		yes
9.2	Solid content: $8,58 \% \pm 1,0 \%$		yes
9.2		Information with regard to physical hazard classes	yes

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
9.2		Aerosols	yes
9.2		Components (flammable): 92.7 %	yes
9.2		Other safety characteristics: there is no additional information	yes
10.1	Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.	Reactivity: The mixture contains reactive substance(s). Risk of ignition.	yes
10.3	Possibility of hazardous reactions: No known hazardous reactions.		yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.2		Information on other hazards: There is no additional information.	yes
13.1		- Product: change in the listing (table)	yes
13.1		- Packagings: change in the listing (table)	yes
13.1		Disposal methods:	yes
13.1		Product: Waste production should be avoided or minimised if possible. Do not empty into the drains. Avoid releasing the product into the environment. Waste, containers must be removed, disposed in a safe way.	yes
13.1		Packagings: Waste production should be avoided or minimised if possible. Packaging waste should be recycled. Burning or landfilling should only be considered if recycling is not feasible.	yes
13.1		Notes on disposal:	yes
13.1		Product: Disposal of this product and its dissolutions and by-products must be carried out in accordance with the environmental protection requirements and waste disposal laws as well as the requirements of the local authorities at all times. Excess must be handed over, disposed to a recognised waste disposal company (disposal company/recycling company).	yes

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
13.1		Packagings: With the aid of the information provided in this safety data sheet, the responsible authorities must be consulted regarding classification of empty containers, packaging. Empty containers should be disposed, recycled according to type. Licenced containers, packaging can be disposed free of charge via system partners, where applicable. Containers with residual contents must be disposed in accordance with local and national legal provisions. .	yes
14.1	UN number: 1950	UN number or ID number	yes
14.1		ADR/RID: UN 1950	yes
14.1		IMDG-Code: UN 1950	yes
14.1		ICAO-TI: UN 1950	yes
14.2	UN proper shipping name: AEROSOLS	UN proper shipping name	yes
14.2		ADR/RID: AEROSOLS	yes
14.2		IMDG-Code: AEROSOLS	yes
14.2		ICAO-TI: Aerosols, flammable	yes
14.3	Class: 2 (gases) (aerosol)		yes
14.3	Subsidiary risk(s): 2.1 (flammable)		yes
14.3		ADR/RID: 2 (2.1)	yes
14.3		IMDG-Code: 2.1	yes
14.3		ICAO-TI: 2.1	yes
14.4	Packing group: not assigned to a packing group	Packing group: not assigned	yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: AEROSOLS		yes
14.7	Class: 2		yes

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7		Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information	yes
14.7		Classification code: 5F	yes
14.7		Danger label(s): 2.1	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): 190, 327, 344, 625	yes
14.7		Excepted quantities (EQ): E0	yes
14.7		Limited quantities (LQ): 1 L	yes
14.7		Transport category (TC): 2	yes
14.7		Hazard identification No: 23	yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: AEROSOLS		yes
14.7	Class: 2.1		yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: Aerosols, flammable		yes
14.7	Class: 2.1		yes
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: none of the ingredients are listed		yes
15.1	VOC content: 91.42 % 720 g/l	VOC content: 90.2 % 640 g/l	yes
15.1	VOC content: 91.42 % 713.1 g/l	VOC content: 90.2 % 631.4 g/l	yes
15.1	Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD): none of the ingredients are listed	Water Framework Directive (WFD)	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		Regulation on persistent organic pollutants (POP): None of the ingredients are listed.	yes
15.1		UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances	yes
15.1		UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2019/1831/EU	Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CN Code	Combined Nomenclature
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Abbr.	Descriptions of used abbreviations
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Acryl-Spraylack

Version number: 4.0

Revision: 2022-05-31
Date of issue: 2022-05-31:

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode 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.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Note concerning the lower explosion limit of water-thinnable varnishes:

See PTB research report PEx5 200500185, Physical-Technical Federal Agency Braunschweig, September 2005 and report PTB-W-57, February 1994.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.