

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 1 of 11

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

1.1. Product identifier

OLI-PUR 7.21 1K Mehrschichtlack

Further trade names

OLI-PUR 1K Mehrschichtlack
7.21- Glanzgrad

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

Use of the substance/mixture

Colour

1.3. Details of the supplier of the safety data sheet

Company name:	Oli Lacke GmbH	
Street:	Bahnhofstrase 22	
Place:	D-09244 Lichtenau	
Telephone:	+49(0)37208/84200	Telefax: +49(0)37208/84268
e-mail:	entwicklung@oli-lacke.de	
Internet:	www.oli-lacke.de	

1.4. Emergency telephone number:

Gemeins. Gifinformationszentrum Erfurt
+49(0)361/730730

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F - Highly flammable, Xi - Irritant
R phrases:
Highly flammable.
Irritating to eyes.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

GHS classification

Hazard categories:
Flammable liquid: Flam. Liq. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

2.2. Label elements

Hazardous components which must be listed on the label

ethyl acetate
n-butyl acetate
acetone; propan-2-one; propanone
Lösungsmittelnaphtha, niedrig siedend (Benzolgehalt < 0,1 Gew.%)

Signal word:	Danger
Pictograms:	GHS02-GHS07

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 2 of 11

**Hazard statements**

- | | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statements

- | | |
|------|--|
| P233 | Keep container tightly closed. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Gemisch aus nachfolgend aufgeführten Stoffen mit ungefährlichen Beimengungen:

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 3 of 11

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
205-500-4	ethyl acetate	20 - < 25 %
141-78-6	F - Highly flammable, Xi - Irritant R11-36-66-67	
607-022-00-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
204-658-1	n-butyl acetate	15 - < 20 %
123-86-4	R10-66-67	
607-025-00-1	Flam. Liq. 3, STOT SE 3; H226 H336	
200-662-2	acetone; propan-2-one; propanone	10 - < 15 %
67-64-1	F - Highly flammable, Xi - Irritant R11-36-66-67	
606-001-00-8	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
265-151-9	Lösungsmittelnaphtha, niedrig siedend (Benzolgehalt < 0,1 Gew.%)	10 - < 15 %
64742-49-0	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H225 H336 H304 H412	
-	cellulose nitrate; nitrocellulose	10 - < 15 %
-	E - Explosive R3	
603-037-00-6	Expl. 1.1; H201	
215-535-7	xylene	5 - < 10 %
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315	
200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	1 - < 5 %
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
202-598-0	ethyl DL-lactate, ethyl lactate	1 - < 5 %
97-64-3	Xi - Irritant R10-37-41	
607-129-00-7	Flam. Liq. 3, STOT SE 3, Eye Dam. 1; H226 H335 H318	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

After contact with eyes

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 4 of 11

immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Impaired consciousness

4.3. Indication of any immediate medical attention and special treatment needed

Immediately call a doctor.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam. Carbon dioxide (CO₂). Extinguishing powder. Water mist

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke. Hazardous decomposition products: carbon black Danger of serious damage to health by prolonged exposure. Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. - No smoking. Provide adequate ventilation. In case of fire and/or explosion do not breathe fumes. Safe handling: see section 7 Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Observe in addition any national regulations! In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

See chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Even after use and until complete evaporation of the flammable components, there is still a danger of an explosive steam-air mixture forming. Only use the material in places where open light, fire and other flammable sources can be kept away. Take precautionary measures against static discharge. Use explosion-proof electrical equipment. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools. Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles When using do not eat, drink or smoke. Keep away from sources of heat (e.g. hot

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 5 of 11

surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Concentrated vapours are heavier than air. Vapours may form explosive mixtures with air.

Further information on handling

Observe in addition any national regulations!

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Betriebssicherheitsverordnung (BetrSichV)

Advice on storage compatibility

Von stark sauren oder alkalischen Materialien oder Oxidationsmitteln fernhalten.

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Notice the directions for use on the label. Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition. - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 6 of 11

Protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink, smoke or sneeze at the workplace.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Use protective skin cream before handling the product.

Skin protection

Protective clothing: Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

During spraying wear suitable respiratory equipment. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour:

Test method

Changes in the physical state

Flash point:	< 21 °C	DIN EN ISO 1523
Lower explosion limits:	0,7 vol. %	
Upper explosion limits:	14,3 vol. %	
Ignition temperature:	200 °C	
Density (at 20 °C):	0,906 g/cm ³	ISO 2811
Flow time: (at 20 °C)	20 - 30 s	4 DIN 53211
Solvent separation test:	< 3 %	
Solvent content:	79 %	

9.2. Other information

Solid content: 21 %

SECTION 10: Stability and reactivity

10.1. Reactivity

refer to chapter 7. No further action is necessary.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reactions with: Alkalis (alkalis), concentrated. Acid, concentrated. Oxidizing agents, strong.

10.4. Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5. Incompatible materials

Rubber articles

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 7 of 11

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50	5800 mg/kg	Rat	RTECS
	dermal	LD50	20000 mg/kg	Rabbit	IUCLID
	inhalative (4 h) vapour	LC50	76 mg/l	Rat	
1330-20-7	xylene				
	dermal	ATE	1100 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		

Carcinogenic/mutagenic/toxic effects for reproduction

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

Additional information on tests

There are no data available on the preparation/mixture itself. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

In case of inhalation

Adverse human health effects and symptoms :May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Central nervous system depression - Dizziness, Headache, Drowsiness, Unconsciousness

After eye contact:

Irritating to eyes.

In case of ingestion :

Vomiting , Gastrointestinal complaints

After skin contact:

The product is skin resorptive. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	6100 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 8 of 11

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

There are no data available on the preparation/mixture itself.

Further information

There are no data available on the preparation/mixture itself. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN1263
14.2. UN proper shipping name:	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 9 of 11

Special Provisions: 163 640D 650
 Limited quantity: 5 L
 Transport category: 2
 Hazard No: 33
 Tunnel restriction code: D/E

Other applicable information (land transport)

E2

Inland waterways transport (ADN)

14.1. UN number: UN1263
14.2. UN proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3
 Classification code: F1
 Special Provisions: 163 640D 650
 Limited quantity: 5 L

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number: UN1263
14.2. UN proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3
 Special Provisions: 163
 Limited quantity: 5 L
 EmS: F-E, S-E

Other applicable information (marine transport)

E2

Air transport (ICAO)

14.1. UN number: UN1263
14.2. UN proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3
 Special Provisions: A3 A72
 Limited quantity Passenger: 1 L
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E2

Passenger-LQ: Y341

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 10 of 11

14.6. Special precautions for user

refer to chapter 7. No further action is necessary.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 715 g/l

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

03	Extreme risk of explosion by shock, friction, fire or other sources of ignition.
10	Flammable.
11	Highly flammable.
20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
37	Irritating to respiratory system.
38	Irritating to skin.
41	Risk of serious damage to eyes.
51	Toxic to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Full text of H statements referred to under Sections 2 and 3

H201	Explosive; mass explosion hazard.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OLI-PUR 7.21 1K Mehrschichtlack

Print date: 25.03.2015

Product code: A00002

Page 11 of 11

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)