

Glass edge laquer

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1. Identification

Product identifier

Glass edge laquer

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Clear coating

Details of the supplier of the safety data sheet

Manufacturer

Company name: BOHLE AG
Street: Dieselstr. 10
Place: D-42781 Haan
Telephone: +49 2129 5568-0

49 2129 5568-0 Telefax: +49 2129 5568-282

Telephone: +49 2129 5568-300

e-mail: info@bohle.de Contact person: Dr. Martin Schade

e-mail: MSDS@bohle.de www.bohle.com

Responsible Department: Chemie

Trader of the product

Company name: Bohle America, Inc.

Street: 10924 Granite Street, Suite 200
Place: USA-NC 28273 Charlotte
e-mail (Contact person): sales@bohle.com

e-mail (Contact person): sales@bohle.com

Emergency phone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

isopropyl acetate

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

2-methylpropan-1-ol; iso-butanol

butan-1-ol; n-butanol

Signal word: Danger

Pictograms:







Hazard statements

H225 Highly flammable liquid and vapor



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H318 Causes serious eye damage
H336 May cause drowsiness or dizziness

H412 Harmful to aquatic life with long lasting effects

Precautionary statements

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

P243 Take precautionary measures against static discharge.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P370+P378 In case of fire: Use Carbon dioxide (CO2), Sand, Extinguishing powder to extinguish.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

Mixtures

Chemical characterization

One-pack performance coatings

Hazardous components

CAS No	Components					
	EC No	Index No	REACH No			
	Classification (Regulation (EC)	lo 1272/2008)				
108-21-4	isopropyl acetate			<25 %		
	203-561-1	607-024-00-6	01-2119537214-46			
	Flam. Liq. 2, Eye Irrit. 2, STOT S	SE 3; H225 H319 H336 EUH	066			
64742-49-0	Naphtha (petroleum), hydrotreat	ed light; Low boiling point hy	drogen treated naphtha	<25 %		
	265-151-9		01-2119473851-33			
	Flam. Liq. 2, STOT SE 3, Asp. T	ox. 1, Aquatic Chronic 2; H2	25 H336 H304 H411			
67-63-0	propan-2-ol; isopropyl alcohol; is	<10 %				
	200-661-7	603-117-00-0	01-2119457558-25			
	Flam. Liq. 2, Eye Irrit. 2, STOT S					
123-86-4	n-butyl acetate	<10 %				
	204-658-1	607-025-00-1	01-2119485493-29			
	Flam. Liq. 3, STOT SE 3; H226	H336 EUH066				
78-83-1	2-methylpropan-1-ol; iso-butano	<10 %				
	201-148-0	603-108-00-1	01-2119484609-23			
	Flam. Liq. 3, Skin Irrit. 2, Eye Da	m. 1, STOT SE 3, STOT SE	3; H226 H315 H318 H335 H336			
71-36-3	butan-1-ol; n-butanol	<2,5 %				
	200-751-6	603-004-00-6				
	Flam. Liq. 3, Acute Tox. 4, Skin H318 H335 H336	rrit. 2, Eye Dam. 1, STOT S	E 3, STOT SE 3; H226 H302 H315			
107-98-2	1-methoxy-2-propanol; monopro	<2,5 %				
	203-539-1					
	Flam. Liq. 3, STOT SE 3; H226					

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
	Specific Conc	Limits, M-factors and ATE	
108-21-4	203-561-1	isopropyl acetate	<25 %
	inhalation: LC mg/kg	250 = 50,6 mg/l (vapours); dermal: LD50 = > 17400 mg/kg; oral: LD50 = 6750	
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	<10 %
	inhalation: LC	250 = 30 mg/l (vapours); dermal: LD50 = 13400 mg/kg; oral: LD50 = 4570 mg/kg	
78-83-1	201-148-0	2-methylpropan-1-ol; iso-butanol	<10 %
	inhalation: LC mg/kg	250 = > 24 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2830	
71-36-3	200-751-6	butan-1-ol; n-butanol	<2,5 %
	oral: ATE = 5	00 mg/kg	
107-98-2	203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether	<2,5 %
	dermal: LD50	= 11000 mg/kg; oral: LD50 = > 5000 mg/kg	

4. First-aid measures

Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Move to fresh air. Consult a physician after significant exposure. If victim is unconscious but breathing: Victim to lie down in the recovery position, cover and keep him warm. Call a physician immediately.

After contact with skin

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, consult a specialist.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (CO2)

Unsuitable extinguishing media

high volume water jet

Specific hazards arising from the chemical

In use, may form flammable/explosive vapor-air mixture.

Fire may cause evolution of: Carbon monoxide, Carbon dioxide)

Special protective equipment and precautions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.



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Additional information

Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Avoid contact with skin and eyes. Do not breathe vapour.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.

Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Other information

Provide adequate ventilation. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect in closed and suitable containers for disposal.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Provide room air exhaust at ground level.

Avoid formation of aerosol. Do not breathe vapour/aerosol.

Avoid contact with the skin and the eyes.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Take off all contaminated clothing immediately. Keep away from food, drink and animal feedingstuffs. When using do not eat or drink. Do not smoke. Wash hands before breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure controls/personal protection

Control parameters



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Exposure limits

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
64-17-5	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	PEL
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL
78-83-1	Isobutyl alcohol	100	300		TWA (8 h)	PEL
		50	150		TWA (8 h)	REL
108-21-4	Isopropyl acetate	250	950		TWA (8 h)	PEL
67-63-0	Isopropyl alcohol	400	980		TWA (8 h)	PEL
		400	980		TWA (8 h)	REL
		500	1225		STEL (15 min)	REL
123-86-4	n-Butyl acetate	150	710		TWA (8 h)	REL
		200	950		STEL (15 min)	REL
71-36-3	n-Butyl alcohol	100	300		TWA (8 h)	PEL
		C 50	C 150		Ceiling	REL
123-86-4	n-Butyl-acetate	150	710		TWA (8 h)	PEL
107-98-2	Propylene glycol monomethyl ether	100	360		TWA (8 h)	REL
		150	540		STEL (15 min)	REL

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
67-63-0 propan-2-ol; isopropyl alcohol; isopropanol					
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day	
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day	
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³	
Worker DNEL, long-term		inhalation	systemic	500 mg/m³	

PNEC values

CAS No	Substance			
Environmenta	al compartment	Value		
67-63-0	67-63-0 propan-2-ol; isopropyl alcohol; isopropanol			
Freshwater		140,9 mg/l		
Freshwater (i	ntermittent releases)	140,9 mg/l		
Marine water		140,9 mg/l		
Freshwater sediment		552 mg/kg		
Marine sediment		552 mg/kg		
Micro-organisms in sewage treatment plants (STP)		2251 mg/l		
Soil		28 mg/kg		

Exposure controls

Appropriate engineering controls

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.



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Individual protection measures, such as personal protective equipment

Eye/face protection

safety glasses with side-shields conforming to EN166

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Glove material: Butyl caoutchouc (butyl rubber) >=0,5mm, NBR (Nitrile rubber) >=0,35mm Breakthrough time: >=480 min.

Skin protection

impervious clothing

Respiratory protection

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
Color: clear
Odor: characteristic

Test method

Melting point/freezing point:

Boiling point or initial boiling point and

78 °C

boiling range:

Lower explosion limits: 0,8 vol. % Upper explosion limits: 19 vol. %

Flash point: 2 °C DIN 51755

Auto-ignition temperature: 200 °C pH-Value (at 20 °C): not applicable Water solubility: insoluble

Solubility in other solvents

miscible with most organic solvents

Vapor pressure: 1.100 hPa

(at 50 °C)

Density (at 20 °C): 0,870 g/cm³

Other information

Information with regard to physical hazard classes

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Self-ignition temperature not auto-flammable

Other safety characteristics

Solvent separation test: <3%
Solvent content: ca. 79%
Solid content: 21%
Viscosity / dynamic: not determined

(at 20 °C)

Flow time: 13 s (at 20 °C)

(at 20 C)

10. Stability and reactivity



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Reactivity

None under normal processing.

Chemical stability

No decomposition if used as directed.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Keep away from heat and sources of ignition.

Take precautionary measures against static discharge.

Incompatible materials

strong acids and oxidizing agents

Hazardous decomposition products

None known.

11. Toxicological information

Information on toxicological effects

Acute toxicity

LD50/oral/rat = >2000mg/kg

CAS No	Components							
	Exposure route	Dose		Species	Source	Method		
108-21-4	isopropyl acetate							
	oral	LD50 mg/kg	6750	Rat	GESTIS			
	dermal	LD50 mg/kg	> 17400	Rabbit	GESTIS			
	inhalation (4 h) vapour	LC50	50,6 mg/l	Rat				
67-63-0	propan-2-ol; isopropyl al	cohol; isopr	opanol					
	oral	LD50 mg/kg	4570	Rat				
	dermal	LD50 mg/kg	13400	Rabbit				
	inhalation (4 h) vapour	LC50	30 mg/l	Rat				
78-83-1	2-methylpropan-1-ol; iso	2-methylpropan-1-ol; iso-butanol						
	oral	LD50 mg/kg	> 2830	Rat				
	dermal	LD50 mg/kg	> 2000	Rat				
	inhalation (4 h) vapour	LC50	> 24 mg/l	Rat				
71-36-3	butan-1-ol; n-butanol							
	oral	ATE mg/kg	500					
107-98-2								
	oral	LD50 mg/kg	> 5000	Rat	IUCLID			
	dermal	LD50 mg/kg	11000	Rabbit				

Information on other hazards



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Other information

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

12. Ecological information

Ecotoxicity

Ecological injuries are not known or expected under normal use.

CAS No	Components							
	Aquatic toxicity	Dose	[[h] [d]	Species	Source	Method	
67-63-0	propan-2-ol; isopropyl alc	ohol; isopropano	ol					
	Acute fish toxicity	LC50 96 mg/l	640		Pimephales promelas (fathead minnow)			
	Acute algae toxicity	ErC50 >2 mg/l	2000		Desmodesmus subspicatus			
78-83-1	2-methylpropan-1-ol; iso-butanol							
	Acute fish toxicity	LC50 14 mg/l	130	96 h	Pimephales promelas			
	Acute algae toxicity	ErC50 12 mg/l	250		Desmodesmus subspicatus			
	Acute crustacea toxicity	EC50 14 mg/l	139	48 h	Daphnia magna			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether							
	Acute fish toxicity	LC50 46 10000 mg/l	500 -	96 h	Leuciscus idus	IUCLID		
	Acute algae toxicity	ErC50 > mg/l	1000		Selenastrum capricornutum			
	Acute crustacea toxicity	EC50 > 8	500	48 h	Daphnia magna	IUCLID		

Persistence and degradability

Readily biodegradable, according to appropriate OECD test.

Partition coefficient n-octanol/water

CAS No	Components	Log Pow
108-21-4	isopropyl acetate	1,02
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	-0,16
78-83-1	2-methylpropan-1-ol; iso-butanol	0,79
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437

Mobility in soil

The product evaporates readily.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

hazardous to water (WGK 2)

Do not let product enter drains.



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13. Disposal considerations

Waste treatment methods

Disposal recommendations

In accordance with local and national regulations.

List of Wastes Code - 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 hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Cleaning agent: n-Butyl acetate

14. Transport information

Land transport (ADR/RID)

UN number or ID number:UN 1263UN proper shipping name:PaintTransport hazard class(es):3Packing group:IIHazard label:3



Classification Code: F1
Special Provisions: 601
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

UN number or ID number:UN 1263UN proper shipping name:PaintTransport hazard class(es):3Packing group:IIHazard label:3



Classification Code: F1
Special Provisions: 601
Limited quantity: 1 L
Excepted quantity: E2



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Marine transport (IMDG)

UN number or ID number:
UN 1263
UN proper shipping name:
Paint
Transport hazard class(es):
Packing group:
II
Hazard label:
3



Special Provisions:

Limited quantity:

Excepted quantity:

E2

EmS:

F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:UN 1263UN proper shipping name:PaintTransport hazard class(es):3Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A180

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

none

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

not relevant

15. Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 29, Entry 40, Entry 75

2004/42/EC (VOC): 79% 687g/l

Subcategory (EU-VOC): Special finishes - All types, VOC limit value: 840 g/l

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment

restrictions for child bearing mothers and nursing.

Water hazard class (D): 3 - highly hazardous to water



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Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 15.

Relevant H statements (full text)

•		un (0)(1)
	H225	Highly flammable liquid and vapor
	H226	Flammable liquid and vapor
	H302	Harmful if swallowed
	H304	May be fatal if swallowed and enters airways
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H336	May cause drowsiness or dizziness
	H411	Toxic to aquatic life with long lasting effects
	H412	Harmful to aquatic life with long lasting effects
	EUH066	Repeated exposure may cause skin dryness or cracking.

Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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