

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Glass edge laquer

UFI: XCF5-38NX-MTM0-NDW9

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

Clear coating

1.3. Details of the supplier of the safety data sheet

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Dr. Martin Schade	Telephone: +49 2129 5568-300
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

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

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
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.

2.2. 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 vapour.
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, hot surfaces, sparks, open flames and other ignition sources. No

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 2 of 11

	smoking.
P243	Take action to prevent static discharges.
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/hearing 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 (CO ₂), Sand, Extinguishing powder to extinguish.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
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SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

One-pack performance coatings

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 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 SE 3; H225 H319 H336 EUH066			
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha			<25 %
	265-151-9		01-2119473851-33	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			<10 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
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-butanol			<10 %
	201-148-0	603-108-00-1	01-2119484609-23	
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 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 Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H302 H315 H318 H335 H336			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			<2,5 %
	203-539-1	603-064-00-3	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H226 H336			

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 3 of 11

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
108-21-4	203-561-1	isopropyl acetate	<25 %
	inhalation: LC50 = 50,6 mg/l (vapours); dermal: LD50 = > 17400 mg/kg; oral: LD50 = 6750 mg/kg		
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	<10 %
	inhalation: LC50 = 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: LC50 = > 24 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2830 mg/kg		
71-36-3	200-751-6	butan-1-ol; n-butanol	<2,5 %
	oral: ATE = 500 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		

SECTION 4: First aid measures
4.1. 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.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media

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

Unsuitable extinguishing media

high volume water jet

5.2. Special hazards arising from the substance or mixture

In use may form flammable/explosive vapour-air mixture.
Fire may cause evolution of: Carbon monoxide, Carbon dioxide)

5.3. Advice for firefighters

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 4 of 11

Additional information

Use water spray to cool unopened 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****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.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

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

6.3. 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.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust 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.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

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

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 5 of 11

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
71-36-3	Butan-1-ol	20	-		TWA (8 h)	
64-17-5	Ethanol	1000	-		STEL (15 min)	
78-83-1	Isobutyl alcohol	50	150		TWA (8 h)	
		75	225		STEL (15 min)	
67-63-0	Isopropyl alcohol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	
123-86-4	n-Butyl acetate	50	241		TWA (8 h)	
		150	723		STEL (15 min)	
108-21-4	Propyl acetate isomers: Isopropyl acetate	100	-		TWA (8 h)	
		150	-		STEL (15 min)	
107-98-2	Propylene glycol monomethyl ether	100	375		TWA (8 h)	
		150	568		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-63-0	2-Propanol	Acetone	40 mg/L	Urine	End of shift at end of workweek

DNEL/DMEL values

CAS No	Substance	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/m ³
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³

PNEC values

CAS No	Substance	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater		140,9 mg/l
Freshwater (intermittent 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

8.2. 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 6 of 11

limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

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) $\geq 0,5\text{mm}$, NBR (Nitrile rubber) $\geq 0,35\text{mm}$

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.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear
Odour:	characteristic

Test method

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	78 °C
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	
Vapour pressure:	1.100 hPa
(at 50 °C)	
Density (at 20 °C):	0,870 g/cm ³

9.2. 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)	

SECTION 10: Stability and reactivity

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 7 of 11

10.1. Reactivity

None under normal processing.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

Take action to prevent static discharges.

10.5. Incompatible materials

strong acids and oxidizing agents

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity

LD50/oral/rat = >2000mg/kg

CAS No	Chemical name				
	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 alcohol; isopropanol				
	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-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	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 mg/kg > 5000	Rat	IUCLID	
	dermal	LD50 mg/kg 11000	Rabbit		

11.2. Information on other hazards

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 8 of 11

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.

SECTION 12: Ecological information
12.1. Toxicity

Ecological injuries are not known or expected under normal use.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	>2000	72 h	Desmodesmus subspicatus	
78-83-1	2-methylpropan-1-ol; iso-butanol					
	Acute fish toxicity	LC50 mg/l	1430	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	1250		Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	1439	48 h	Daphnia magna	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50 mg/l	4600 - 10000	96 h	Leuciscus idus	IUCLID
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna	IUCLID

12.2. Persistence and degradability

Readily biodegradable, according to appropriate OECD test.

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

CAS No	Chemical name	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

12.4. Mobility in soil

The product evaporates readily.

12.5. 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.

12.6. 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 9 of 11

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

In accordance with local and national regulations.

List of Wastes Code - 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 hazardous substances; hazardous waste

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

SECTION 14: Transport information
Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1263
14.2. UN proper shipping name:	Paint
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard 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)

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 10 of 11



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

Marine transport (IMDG)

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



Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

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



Special Provisions:	A180
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
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14.6. Special precautions for user

none

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information
15.1. 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Glass edge laquer

Revision date: 01.08.2023

Product code: BO5007005

Page 11 of 11

2004/42/EC (VOC): 79%
687g/l
Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 g/l

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

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

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
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.

Further Information

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.)