

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 1 of 9

1. Identification
Product identifier

Bohle Professional Glass cleaner, aerosol

Recommended use of the chemical and restrictions on use
Use of the substance/mixture

Glass cleaner, contains solvents, flammable

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	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	

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

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

Aerosol 1; H222-H229

Full text of hazard statements: see SECTION 16.

Label elements
Regulation (EC) No 1272/2008
Signal word: Danger

Pictograms:

Hazard statements

H222	Extremely flammable aerosol
H229	Pressurised container: may burst if heated

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P260	Do not breathe mist/vapors/spray

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 2 of 9

P271 Use only outdoors or in a well-ventilated area.
 P501 Dispose of in accordance with local regulations.

3. Composition/information on ingredients
Mixtures
Relevant ingredients

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether			<5%
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			<5%
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
68476-85-7	Petroleum gases, liquefied; Petroleum gas			<5%
	270-704-2	649-202-00-6	01-2119485911-31	
	Flam. Gas 1, Liquefied gas; H220 H280			
7632-00-0	sodium nitrite			< 1 %
	231-555-9	007-010-00-4	01-2119471836-27	
	Ox. Sol. 3, Acute Tox. 3, Eye Irrit. 2, Aquatic Acute 1; H272 H301 H319 H400			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
111-76-2	203-905-0	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	<5%
		inhalation: ATE 3 mg/l (vapours); oral: ATE 1200 mg/kg	
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	<5%
		inhalation: LC50 = 30 mg/l (vapours); dermal: LD50 = 13400 mg/kg; oral: LD50 = 4570 mg/kg	
7632-00-0	231-555-9	sodium nitrite	< 1 %
		oral: LD50 = 180 mg/kg	

4. First-aid measures
Description of first aid measures
General information

Move to fresh air in case of accidental inhalation of vapours.

After inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Put victim at rest, cover with a blanket and keep warm. Call a physician immediately.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 3 of 9

After ingestion

Immediately give large quantities of water to drink. Do not induce vomiting. Consult a physician if necessary.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Foam, carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

high volume water jet

Specific hazards arising from the chemical

Extremely flammable

Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Contains gas under pressure; may explode if heated.

Special protective equipment and precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Use water spray to cool unopened containers.

Remove product from area of fire.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection.

Do not breathe gas/vapour/aerosol.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Collect spillage. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Methods and material for containment and cleaning up**Other information**

Remove all sources of ignition. Provide adequate ventilation.

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

Reference to other sections

Wear personal protection equipment (refer to section 8). Disposal: see section 13

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

When using, do not eat, drink or smoke.

Advice on protection against fire and explosion

Do not smoke. Keep away from heat and sources of ignition. Keep product and empty container away from heat and sources of ignition.

Advice on general occupational hygiene

Keep away from sources of ignition - No smoking.

Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs.

Further information on handling

Keep away from direct sunlight. Also after use, do not open with force or burn.

Conditions for safe storage, including any incompatibilities

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 4 of 9

Requirements for storage rooms and vessels

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

8. Exposure controls/personal protection
Control parameters
Exposure limits

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
111-76-2	2-Butoxyethanol	50	240		TWA (8 h)	PEL
		5	24		TWA (8 h)	REL
67-63-0	Isopropyl alcohol	400	980		TWA (8 h)	PEL
		400	980		TWA (8 h)	REL
		500	1225		STEL (15 min)	REL
68476-85-7	L.P.G. (Liquified petroleum gas)	1000	1800		TWA (8 h)	PEL
68476-85-7	L.P.G.	1000	1800		TWA (8 h)	REL

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

Exposure controls
Appropriate engineering controls

Provide adequate ventilation.

Do not breathe gas/vapour/aerosol.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust) .

Individual protection measures, such as personal protective equipment
Eye/face protection

safety glasses with side-shields conforming to EN166

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 5 of 9

Hand protection

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.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin protection

Wear suitable protective equipment.

Wash hands before breaks and after work.

Do not eat, drink or smoke when using this product.

Apply skin care products after work.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	aerosol
Color:	clear
Odor:	characteristic

Boiling point or initial boiling point and boiling range:	-40 - -2 °C	Test method
Lower explosion limits:	1,8 vol. %	
Upper explosion limits:	9,5 vol. %	
Flash point:	<-40 °C	ASTM D 93
Vapor pressure: (at 45 °C)	5900 - 17600 hPa	
Density (at 23 °C):	0,95 g/cm ³	
Relative vapour density: (at 15 °C)	1,5	

Other information

Information with regard to physical hazard classes

Self-ignition temperature	
Gas:	410 - 580 °C

Other safety characteristics

Solvent content:	max. 58 g/l
Softening point:	ISO 5940

10. Stability and reactivity

Reactivity

Stable under normal conditions.

Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

No decomposition if stored and applied as directed.

Conditions to avoid

Protect from frost, heat and sunlight.

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

Incompatible materials

oxidizing agents

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 6 of 9

Hazardous decomposition products

Carbon monoxide

11. Toxicological information

Information on toxicological effects

Acute toxicity

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Headaches and dizziness may occur, proceeding to fainting or unconsciousness; large doses may result in coma and death.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether				
	oral	ATE 1200 mg/kg			
	inhalation vapour	ATE 3 mg/l			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 4570 mg/kg	Rat		
	dermal	LD50 13400 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 30 mg/l	Rat		
7632-00-0	sodium nitrite				
	oral	LD50 180 mg/kg	Rat	GESTIS	

Irritation and corrosivity

Repeated exposure may cause skin dryness or cracking.
Contact with eyes may cause irritation.

Information on other hazards

Other information

This information is not available.

12. Ecological information

Ecotoxicity

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 7 of 9

CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 mg/l	1490	96 h	Lepomis macrochirus	
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	
7632-00-0	sodium nitrite					
	Acute fish toxicity	LC50 mg/l	0,56 - 1,78	96 h	Onchorhynchus mykiss	

Bioaccumulative potential
Partition coefficient n-octanol/water

CAS No	Components	Log Pow
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	0,81 (25°C)
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	-0,16
68476-85-7	Petroleum gases, liquefied; Petroleum gas	1,09-2,8
7632-00-0	sodium nitrite	-3,7

Results of PBT and vPvB assessment

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.

Other adverse effects

This information is not available.

Further information

Water hazard class 2: water endangering
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

13. Disposal considerations
Waste treatment methods
Disposal recommendations

In accordance with local and national regulations.

14. Transport information
Land transport (ADR/RID)

UN number or ID number: UN 1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2
Packing group: -
 Hazard label: 2.1



Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 8 of 9

Classification Code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

Inland waterways transport (ADN)

UN number or ID number:	UN 1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2
Packing group:	-
Hazard label:	2.1



Classification Code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

Marine transport (IMDG)

UN number or ID number:	UN 1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2.1
Packing group:	-
Hazard label:	2.1



Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:	UN 1950
UN proper shipping name:	AEROSOLS, flammable
Transport hazard class(es):	2.1
Packing group:	-
Hazard label:	2.1



Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
----------------------------	----

Bohle Professional Glass cleaner, aerosol

Revision date: 04/03/2024

Product code: BO5107900

Page 9 of 9

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 40, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 6,1 % (58 g/l)

Subcategory (EU-VOC):

Preparatory and cleaning - Preparatory, VOC limit value: 850 g/l

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

16. Other information
Changes

This data sheet contains changes from the previous version in section(s): 1,3,9,11,16.

Abbreviations and acronyms

Ox. Sol: Oxidizing solids

Flam. Gas: Flammable gases

Aerosol: Flammable aerosols

Liquefied gas

Flam. Liq: Flammable liquids

Acute Tox: Acute toxicity

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity single exposure

Aquatic Acute: Acute aquatic hazard

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data

Relevant H statements (full text)

H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H229	Pressurised container: may burst if heated
H272	May intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)