

Trade name: Glass Cleaner**Product no.:** 77703999**Current version :** 1.0.0, issued: 14.01.2020**Replaced version:** 1.0.0, issued: 25.09.2019**Region:** USA**SECTION 1: Identification****1.1 Product identifier**

Trade name

Glass Cleaner**1.2 Recommended use of the chemical and restrictions on use****Recommended use of the chemical and restrictions on use**
Cleaner**Restrictions on use**

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Koch-Chemie GmbH
Einsteinstr. 42
D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

1.4 Emergency phone number

(+1) 202 464 2554

SECTION 2: Hazard(s) identification**2.1 Classification of the chemical****Classification information**

This product is not subject to classification in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication".

2.2 Label elements

Not relevant

2.4 Hazards not otherwise classified (HNOC)

No data available

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

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Concentration	%
1	2-butoxyethanol		
	111-76-2	< 2.50	%-b.w.

SECTION 4: First-aid measures**4.1 Description of necessary first-aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

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Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Rinse mouth thoroughly with water. Get medical attention if pain still persists.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder; Carbon dioxide; Water spray jet; Foam

Unsuitable extinguishing media

Full water jet

5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); Toxic gases/vapours

5.3 Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Forms slippery surfaces with water.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Take up with absorbent material (e.g., sand, diatomaceous earth, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Ensure adequate ventilation. Avoid dust formation.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid product contact with skin, eyes and clothing; Do not inhale vapours or dust. Provide eye wash fountain in work area.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Avoid formation of dust. Take precautionary measures against static charges.

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7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Comply with legal health and safety regulations; Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Protect against wetness.

SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Occupational exposure limit(s)**

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2
ACGIH Threshold Limit Values		
2-Butoxyethanol		
	TWA	20 ppm
	Remarks	A3; BEI
OSHA Permissible Exposure Limits (PELS) from 29 CFR 1910.1000		
2-Butoxyethanol		
	TWA	240 mg/m ³ 50 ppm

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Individual protection measures, such as personal protective equipment**Respiratory protection**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye / face protection

Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Hand protection

Wear appropriate gloves to prevent skin exposure. Change gloves when torn, punctured or contaminated.

Other protection measures

Common chemical protective clothing (cotton), safety footwear. Selection / adaptation of protection measures according to operational / workplace related conditions.

SECTION 9: Physical and chemical properties

Form/Color	
liquid	
blue	
Odor	
fruity	
Odor threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
Value	appr. 100 °C
Melting point / melting range	
No data available	

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Decomposition point / decomposition range	
No data available	
Flash point	
No data available	
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
not explosive	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapor pressure	
No data available	
Vapor density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
Value	1 g/cm ³
Reference temperature	20 °C
Solubility in water	
Remarks	miscible
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
No data available	
Other information	
Other information	
No data available.	

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

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

strong oxidising agents

10.6 Hazardous decomposition products

In case of fire: see section 5 . None, if handled according to intended use.

SECTION 11: Toxicological information**Information on toxicological effects****Acute oral toxicity (result of the ATE calculation for the mixture)**

Remarks	The result of the applied additivity formula according to CFR (Code of Federal Regulations), Title 29, §1910.1200 "Hazard Communication", section A.1.3 is outside the values that imply a classification / labelling of this mixture according to table A.1.1 defining the respective categories (ATE oral > 2000 mg/kg).
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Acute oral toxicity

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2
LD50		1414 mg/kg bodyweight
Species	rat	
Method	OECD 401	
Source	ECHA	

Acute dermal toxicity (result of the ATE calculation for the mixture)

Remarks	The result of the applied additivity formula according to CFR (Code of Federal Regulations), Title 29, §1910.1200 "Hazard Communication", section A.1.3 is outside the values that imply a classification / labelling of this mixture according to table A.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).
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Acute dermal toxicity

No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)

Remarks	The result of the applied additivity formula according to CFR (Code of Federal Regulations), Title 29, §1910.1200 "Hazard Communication", section A.1.3 is outside the values that imply a classification / labelling of this mixture according to table A.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists)).
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Acute inhalational toxicity

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2
LC50		2.56 mg/l
Duration of exposure		4 h
State of aggregation	mist	
Species	rat	

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Method Source	OECD 403 ECHA		
Skin corrosion/irritation			
No data available			
Serious eye damage/irritation			
No data available			
Respiratory or skin sensitisation			
No data available			
Germ cell mutagenicity			
No data available			
Reproduction toxicity			
No data available			
Carcinogenicity			
No data available			
NTP Report on Carcinogens (RoC)			
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen).			
OSHA Standards listing cancer as a health effect (Table VII.6.2)			
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.			
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
The product contains following substance(s) classified by the IARC Monographs			
No	Substance name	CAS no.	Group
1	2-butoxyethanol	111-76-2	3
STOT - single exposure			
No data available			
STOT - repeated exposure			
No data available			
Aspiration hazard			
No data available			

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)
No data available
Toxicity to fish (chronic)
No data available
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
No data available

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No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Disposal considerations****Product**

Dispose in accordance with federal, state and local regulations.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

SECTION 14: Transport information**14.1 US DOT (Department of Transportation)**

The product is not subject to DOT regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 US Federal Regulations****Toxic Substances Control Act (TSCA)**

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities"

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2

Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

The product contains following substance(s) that are considered being "Hazardous Air Pollutants".

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No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2

Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

EPCRA SARA Section 313, Toxic Chemical Release Inventory

The product contains following substance(s) that are considered being subject to "SARA Reporting".

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2

Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

15.2 US State Regulations**Pennsylvania State Right to Know Hazardous Substance List**

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2

New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2

Massachusetts State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	2-butoxyethanol	111-76-2

Right to Know - California State - Proposition 65

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

SECTION 16: Other information, including date of preparation or last revision**16.2 Date of preparation/revision of the SDS**

Current version	1.0.0	14.01.2020
Replaced version	1.0.0	25.09.2019

16.3 Department issuing safety data sheet

UMCO GmbH
Georg-Wilhelm-Str. 187, D-21107 Hamburg, Germany
Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

16.4 Conclusions

This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Prod-ID 760246

16.5 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists

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ATE – Acute Toxicity Estimate
BOD - Biochemical Oxygen Demand
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania
CAS - Chemical Abstracts Service
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations (US)
CLP - Classification, Labelling, and Packaging
DOT - Department of Transportation Commission
ECHA – European Chemicals Agency
EC / EL – Effective Concentration / Effective Loading
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC – Intermediate Bulk Container
ICAO - International Civil Aviation Organization
IDL - Ingredient Disclosure List
IDLH - Immediately Dangerous to Life and Health
IMDG - International Maritime Dangerous Goods
IUCLID - International Uniform Chemical Information Database
Kow - Octanol/water partition coefficient
LD/LC - Lethal Dose/ Lethal Concentration
MARPOL – Marine Pollution
MEL - Maximum Exposure Limits
NFPA - National Fire Protection Agency
NIOSH - National Institute for Occupational Safety and Health
NJTSR - New Jersey Trade Secret Registry
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL- Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act
STEL - Short-term Exposure Limit
STOT – Specific Target Organ Toxicity
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
UN/NA - United Nations /North American
US - United States
VLE - Exposure Limit Value (Mexico)
VOC – Volatile Organic Compounds