

Safety Data Sheet

Regulation (EC) No. 1907/2006, 1272/2008

Version No.: 1.0 Print Date: Aug. 15, 2019 Page 1/1

SDS REPORT

SDS Report No.	:	EFHZ19080608-CG-01
Compilation Date	:	Aug.15, 2019
Trade Name	:	GLASS CLEANER-AEROSOL
Country of Origin	:	China
Country to Import	:	USA
Composition/Ingredient of The Sample	:	See Section 3 on the SDS
Service Requested	:	Safety Data Sheet (SDS) for the sample with submitted composition.
Summary	:	As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, 1272/2008, Regulation (EU) No 2015/830 and are provided per attached.

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

· **1.1 Product identifier**

· Trade name: GLASS CLEANER-AEROSOL ·

Registration number: Data not available

· **1.2 Relevant identified uses of the substance or mixture and uses advised against on**

· Application of the substance/ mixture: Cleaning.

· **1.3 Details of the supplier of the safety data sheet ·**

Manufacturer/Supplier:

Brand Buzz, LLC

1407 Broadway Suite 601 New York, NY 10018

Tel: +1885034750

Email: info@brandbuzzcp.com

· Only Representative/other EU contact point: Not information available.

· Further information obtainable from: info@brandbuzzcp.com

· **1.4 Emergency telephone number**

For Medical Emergencies, call the American Association of Poison Control Centers: 1-800-222-1222

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008:



GHS02 Flame

Flam. Aerosol 2 H223-H229 Flammable aerosols; Pressurised container: May burst if heated.



GHS07 Exclamation mark

Acute Tox. 4 H332 Harmful if inhaled

Eye irrit. 2 H319 Causes serious eye irritation

• Classification system:

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

• 2.2 Label elements

• **Labeling according to Regulation (EC) No 1272/2008:** The product is labeled according to Regulation (EC) No 1272/2008.

• Hazard pictograms:



GHS02 GHS07

• **Signal word:** Warning

• Hazard statements:

H223-H229 Flammable aerosols; Pressurised container: May burst if heated

H319 Causes serious eye irritation

H332 Harmful if inhaled

• Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

• 2.3 Other hazards

• Results of PBT and vPvB

assessment

PBT: Not applicable **vPvB:** Not

applicable

SECTION 3: Composition/information on ingredients

• 3.1 Chemical characterization: Mixture

• Description:

Mixture of the substances listed below with nonhazardous additions; For the wording of the listed risk phrases refer to section 16.

• Component:

CAS No.: 7732-18-5 EC No.: 231-791-2	Aqua	90.30%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Propane Flam. Gas 1, H220; Press.Gas, H280	5.5%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	n-Butane Flam. Gas 1, H220; Press.Gas, H280	
CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0	Isobutane Flam. Gas 1, H220; Press.Gas, H280	
CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332	1.50%
CAS No.: 68603-42-9 EC No.: 271-657-0	Cocamide DEA Eye Dam. 1, H318; Skin Irrit. 2, H315	0.5%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Isopropyl alcohol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	0.50%
CAS No.: 137-16-6 EC No.: 205-281-5	Sodium Lauryl Sarconinate Acute Tox. 2, H330; Eye Dam. 1, H318; Skin Irrit. 2, H315	0.50%
CAS No.: 532-32-1 EC No.: 208-534-8	Sodium benzoate Eye Irrit. 2, H319	0.50%
CAS No.: 151-21-3 EC No.: 205-788-1	Sodium lauryl sulfate Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	0.30%
CAS No.: 102-71-6 EC No.: 203-049-8	Trihydroxytriethylamine	0.20%
CAS No.: None	Perfume	0.20%

SECTION 4: First aid measures

• 4.1 Description of first aid measures

General advice: If medical advice is needed, have product container or label at hand.

After inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor, if you feel unwell.

After skin contact: Wash skin with water. If there are signs of irritation or other symptoms seek medical attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After swallowing: Wash mouth. Do NOT induce vomiting; Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

• 4.2 Most important symptoms and effects, both acute and delayed: Causes serious eye irritation; Harmful if inhaled.

• 4.3 Indication of any immediate medical attention and special treatment needed: Treat for symptoms, no known specific medicine.

SECTION 5: Fire-fighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents: Use CO₂, powder, water spray or alcohol resistant foam to extinguish. Do not use water with full jet.

• 5.2 Special hazards arising from the substance or mixture: May produce carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

• 5.3 Advice for firefighters

Protective equipment: Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source and collect spillage timely if safe to do it; Ensure adequate ventilation; Keep container tightly closed when not in use; Keep away from heat, hot surfaces, sparks, open flames and other ignition sources; No smoking; Wear personal protective equipment; Avoid breathing vapor; Avoid contact with eyes; Beware of accumulation of vapor in low areas or contained areas, where explosive concentrations may occur; Avoid contact eyes and skin.

• 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Ensure good ventilation; Dispose contaminated material as waste according to section 13.

• 6.4 Reference to other sections:

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling:

Read label before use; Smoking, eating and drinking should be prohibited; Use only in well ventilated areas; Keep container tightly closed when not in use; Avoid all sources of ignition; Do not spray on an open flame or other ignition source; Do not pierce or burn, even after use; Wear personal protective equipment; Avoid breathing vapors; Use respiratory protective device against the effects of vapor; Avoid contact with eyes.

• **Information about fire and explosion protection:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

• 7.2 Conditions for safe storage, including any non-compatibility •

Requirements to be met by storerooms and receptacles:

Protect from sunlight. Do not expose to temperatures exceeding 50 ° C/122 °F.

• **Information about**

storage in one common storage facility: Keep out of reach of children; Keep away from flammable substance.

• **Further information about storage conditions:** Store locked up.

• **7.3 Specific end use(s):** Cleaning.

SECTION 8: Exposure controls/personal protection

• 8.1 Control parameters

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
74-98-6 Propane		
Austria	1000ppm; 1800 mg/m ³	2000ppm; 3600mg/m ³
Belgium	1000ppm	-
Denmark	1000ppm; 1800 mg/m ³	2000ppm; 3600mg/m ³
Finland	800ppm; 1500 mg/m ³	1100ppm; 2000mg/m ³ 15 minutes average value
Germany (AGS)	1000ppm; 1800 mg/m ³	4000ppm; 7200mg/m ³ 15 minutes average value
Germany (DFG)	1000ppm; 1800 mg/m ³	4000ppm; 7200mg/m ³ 15 minutes average value
Latvia	1000ppm; 1800 mg/m ³	-
Poland	1800 mg/m ³	-
Romania	778ppm; 1400 mg/m ³	1000ppm; 1800 mg/m ³ 15 minutes average value
Spain	1000ppm	-
106-97-8 n-Butane		
Austria	800ppm; 1600 mg/m ³	1600ppm; 3800mg/m ³
Belgium	-	980ppm; 2370mg/m ³ 15 minutes average value
Denmark	500ppm; 1200 mg/m ³	1000ppm; 2400mg/m ³
Finland	800ppm; 1900 mg/m ³	1000ppm; 2400mg/m ³ 15 minutes average value

France	800ppm;1900 mg/m ³	-
Germany (AGS)	1000ppm;2400 mg/m ³	4000ppm; 9600mg/m ³ 15 minutes average value
Germany (DFG)	1000ppm;2400 mg/m ³	4000ppm; 9600mg/m ³ 15 minutes average value
Hungary	2350 mg/m ³	9400 mg/m ³
Latvia	300 mg/m ³	-
Poland	1900 mg/m ³	3000 mg/m ³
Spain	800ppm;1935 mg/m ³	-
United Kingdom	600ppm;1450 mg/m ³	700ppm;1810 mg/m ³
75-28-5 Isobutane		
Belgium	-	980ppm;2370 mg/m ³ 15 minutes average value
Finland	800ppm;1900 mg/m ³	1000ppm; 2400 mg/m ³ 15 minutes average value
Germany (AGS)	1000ppm;2400 mg/m ³	4000ppm; 9600mg/m ³ 15 minutes average value
Germany (DFG)	1000ppm;2400 mg/m ³	4000ppm; 9600mg/m ³ 15 minutes average value
111-76-2 2-butoxyethanol		
Austria	20ppm;98mg/m ³	40ppm;200mg/m ³
Belgium	20ppm;98mg/m ³	50ppm;246mg/m ³ 15 minutes average value
Denmark	20ppm;98mg/m ³	40ppm;196mg/m ³
European Union	20ppm;98mg/m ³	50ppm;246mg/m ³ 15 minutes average value
Finland	20ppm;98mg/m ³	50ppm;250mg/m ³ 15 minutes average value
France	10ppm;49mg/m ³	50ppm;246mg/m ³ 15 minutes average value
Germany (AGS)	10ppm;49mg/m ³	40ppm;196mg/m ³ 15 minutes average value
Germany (DFG)	10ppm;49mg/m ³ MAK value applies for the sum of the concentrations of 2-Butoxyethanol and 2-Butoxyethylacetate in air	20ppm;98mg/m ³ MAK value applies for the sum of the concentrations of 2-Butoxyethanol and 2-Butoxyethylacetate in air;15 minutes average value
Hungary	98 mg/m ³	246 mg/m ³
Ireland	20ppm;98mg/m ³	50ppm;246mg/m ³ 15 minutes reference period
Italy	20ppm;98mg/m ³	50ppm;246mg/m ³
Latvia	20ppm;98mg/m ³	50ppm;246mg/m ³ 15 minutes average value
Poland	98 mg/m ³	200 mg/m ³
Romania	20ppm;98mg/m ³	50ppm;246mg/m ³ 15 minutes average value
Spain	20ppm;98mg/m ³	50ppm;245mg/m ³
Sweden	10ppm;50mg/m ³	50ppm;246mg/m ³ 15 minutes average value
The Netherlands	100 mg/m ³	246 mg/m ³
United Kingdom	25ppm;123mg/m ³	50ppm;246mg/m ³
67-63-0 Isopropyl alcohol		

<i>Austria</i>	200ppm; 500mg/m ³	800ppm; 2000 mg/m ³
<i>Belgium</i>	200ppm; 500mg/m ³	400ppm; 1000mg/m ³ 15 minutes average value
<i>Denmark</i>	200ppm; 490mg/m ³	400ppm; 980mg/m ³
<i>Finland</i>	200ppm; 500mg/m ³	250ppm; 620mg/m ³ 15 minutes average value
<i>France</i>	-	400ppm; 980mg/m ³
<i>Germany (AGS)</i>	200ppm; 500mg/m ³	400ppm; 1000mg/m ³ 15 minutes average value
<i>Germany (DFG)</i>	200ppm; 500mg/m ³	400ppm; 1000mg/m ³ 15 minutes average value
<i>Hungary</i>	500 mg/m ³	2000 mg/m ³
<i>Ireland</i>	200ppm	400ppm 15 minutes reference period

<i>Latvia</i>	350 mg/m ³	600 mg/m ³ 15 minutes average value
<i>Poland</i>	900mg/m ³	1200mg/m ³
<i>Romania</i>	81ppm; 200mg/m ³	203ppm; 500mg/m ³ 15 minutes average value
<i>Spain</i>	200ppm; 500mg/m ³	400ppm; 1000mg/m ³
<i>Sweden</i>	150ppm; 350 mg/m ³	250ppm; 600 mg/m ³ 15 minutes average value
<i>United Kingdom</i>	400ppm; 999 mg/m ³	500ppm; 1250mg/m ³
532-32-1 Sodium benzoate		
<i>Germany (AGS)</i>	10mg/m ³ Inhalable fraction	20mg/m ³ Inhalable fraction; 15 minutes average value

• DNELs:			
DNEL type		DNEL worker value	DNEL consumer value
111-76-2 2-butoxyethanol			
Systemic effects	Long-term, inhalation exposure	98 mg/m ³	59 mg/m ³
	Acute /short term, inhalation exposure	1 091 mg/m ³	426 mg/m ³
	Long-term, dermal exposure	125 mg/kg bw/day	75 mg/kg bw/day
	Acute /short term, dermal exposure	89 mg/kg bw/day	89 mg/kg bw/day
	Long-term, oral exposure	-	6.3 mg/kg bw/day
	Acute /short term, oral exposure	-	26.7 mg/kg bw/day
Local Effects	Acute /short term, inhalation exposure	246 mg/m ³	147 mg/m ³
67-63-0 Isopropyl alcohol			
Systemic effects	Long-term, inhalation exposure	-	89 mg/m ³
	Long-term, dermal exposure	-	319 mg/kg bw/day
	Long-term, oral exposure	-	26 mg/kg bw/day
• PNECs:			
PNEC type		Value	
111-76-2 2-butoxyethanol			
Freshwater		8.8 mg/L	
Intermittent releases (freshwater)		26.4 mg/L	
Marine water		880 µg/L	
Sewage treatment plant (STP)		463 mg/L	
Sediment (freshwater)		34.6 mg/kg sediment dw	
Sediment (marine water)		3.46 mg/kg sediment dw	
67-63-0 Isopropyl alcohol			
Freshwater		140.9 mg/L	
Intermittent releases (freshwater)		140.9 mg/L	
Marine water		140.9 mg/L	
Sewage treatment plant (STP)		2.251 g/L	
Sediment (freshwater)		552 mg/kg sediment dw	
Sediment (marine water)		552 mg/kg sediment dw	
• Additional information: The lists valid during the marking were used as basis.			
• 8.2 Exposure controls			
• Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.			
Appropriate engineering controls:			
Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work;			
See section 7 for information about design of technical facilities.			

• **Personal protective equipment**

• **Respiration protection:** Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Protection of hands:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes).

• **Eye protection:**



Safety glasses

Protective goggles with side-shields.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• **Appearance:**

Form	Aerosol
Color	Colorless
Odor	Fragrance
Odor threshold	Not determined
• pH-value	Not determined
• Change in condition	
Melting point/melting range	Not determined
Boiling point and boiling range	Not determined
• Freezing point	Not determined
• Flash point	< 23°C (closed cup)
• Flammability (solid, gas)	Flammable aerosol
• Decomposition temperature	Not determined
• Self-ignition	Not determined
• Danger of explosion	May burst if heated
• Explosion limits	
Lower:	Not determined
Upper:	Not determined
• Oxidizing properties	Not determined
• Vapor pressure	Not determined
• Density	Not determined
• Relative density	Not determined

• Vapor density	Not determined
• Evaporation rate	Not determined
• Solubility in/Miscibility with	
Water	Not determined
• Partition coefficient (n-octanol/water)	Not determined
• Viscosity	
Dynamic	Not determined
Kinematic	Not determined
• 9.2 Other information	Data not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No decomposition if used according to specification.
- **10.2 Chemical stability:** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions:** No further relevant information available.
- **10.4 Conditions to avoid:** Direct sunlight, heat, hot surfaces, sparks, open flames and other ignition sources.
- **10.5 Incompatible materials:** Flammable substance, strong oxidizing agent, oxygen, chlorine and hydrogen chloride.
- **10.6 Hazardous decomposition products:** No further relevant information available.

SECTION 11: Toxicological information• **11.1 Information on toxicological effects** •

Acute toxicity: Harmful if inhaled.

• **LD/LC50 values relevant for classification:** No animal test has been done for this product.

106-97-8 n-Butane

Rat	LC50-inhalation	658000mg/m ³ /4H
Mouse	LC50-inhalation	680000mg/m ³ /2H

75-28-5 Isobutane

Rat	LC50-inhalation	570000ppm/15M
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111-76-2 2-butoxyethanol

Guinea pig	LD50-oral	1200mg/kg
	LD50-skin	230uL/kg
Mouse	LD50- oral	1230mg/kg
	LC50-inhalation	700ppm/7H
Rabbit	LD50-skin	220mg/kg
	LD50-oral	300mg/kg
Rat	LD50- oral	470mg/kg
	LC50-inhalation	450ppm/4H

68603-42-9 Cocamide DEA

Rat	LD50- oral	12200mg/kg
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67-63-0 Isopropyl alcohol

Mouse	LD50-oral	3600mg/kg
Rabbit	LD50-oral	6410mg/kg
	LD50-skin	12800mg/kg
Rat	LD50-oral	5045mg/kg
	LC50-inhalation	16000ppm/8H

532-32-1 Sodium benzoate

Rat	LD50-oral	4070mg/kg
Mouse	LD50-oral	1600mg/kg
Rabbit	LD50-skin	2000mg/kg

151-21-3 Sodium lauryl sulfate

Rat	LD50-oral	1228mg/kg
	LC50- inhalation	> 3900mg/m ³ /1H

Remark: All the above data are from literature.

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eyes damage/ irritation:** Causes serious eye irritation.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

· **Aquatic toxicity:** Not hazardous to the

aquatic environment.

74-98-6 Propane	
Short-term toxicity to fish	LC50 (4 days) 24.11 - 147.54 mg/L
Short-term toxicity to aquatic invertebrates	LC50 (48 h) 14.22 - 69.43 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 7.71 - 19.37 mg/L
106-97-8 n-Butane	
Short-term toxicity to fish	LC50 (4 days) 24.11 - 147.54 mg/L
Short-term toxicity to aquatic invertebrates	LC50 (48 h) 14.22 - 69.43 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 7.71 - 19.37 mg/L
75-28-5 Isobutane	
Short-term toxicity to fish	LC50 (4 days) 24.11 - 147.54 mg/L
Short-term toxicity to aquatic invertebrates	LC50 (48 h) 14.22 - 69.43 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 7.71 - 19.37 mg/L
111-76-2 2-butoxyethanol	
Short-term toxicity to fish	LC50 (4 days) 1.474 g/L
Long-term toxicity to fish	NOEC (21 days) 100 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 1.55 - 1.8 g/L
Long-term toxicity to aquatic invertebrates	NOEC (21 days) 100 mg/L EC50 (21 days) 297 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 623 - 1 840 mg/L NOEC (72 h) 62.5 - 286 mg/L
67-63-0 Isopropyl alcohol	
Short-term toxicity to fish	LC50 (4 days) 9.64 - 10 g/L
Short-term toxicity to aquatic invertebrates	EC50 (24 h) 10 g/L LC50 (24 h) 10 g/L

12.2 Persistence and degradability: Readily degradable.

74-98-6	Propane	Readily biodegradable
106-97-8	n-Butane	Readily biodegradable
75-28-5	Isobutane	Readily biodegradable
111-76-2	2-butoxyethanol	Readily biodegradable
67-63-0	Isopropyl alcohol	COD=2.23 g O ₂ /g; Readily biodegradable in water

• **12.3 Bio-accumulative potential:** Low bio-accumulation.

74-98-6	Propane	Log Pow = 1.09 - 2.8 at 20 °C and pH 7
106-97-8	n-Butane	Log Pow = 1.09 - 2.8 at 20 °C and pH 7
75-28-5	Isobutane	Log Pow = 1.09 - 2.8 at 20 °C and pH 7
111-76-2	2-butoxyethanol	Log Pow = 0.81 at 25 °C and pH 7
67-63-0	Isopropyl alcohol	Log Pow= 0.05 at 25 °C

• **12.4 Mobility in soil:** Soluble in water, high mobility in soil.

• **12.5 Results of PBT and vPvB**

assessment

PBT: Not applicable **vPvB:** Not applicable

• **12.6 Other adverse effects:** No further relevant information available.

• **12.7 Additional ecological information**

• **General notes:** Water hazard class 1(German Regulation) (self-assessment): Slightly hazardous for water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration


• **13.1 Waste treatment methods**

• **Recommendation:** Must not be disposed together with household garbage.

• **13.2 Un-cleaned packaging**

• **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

• 14.1 UN-Number ADR, RID, ADN, IMDG, IATA	UN 1950
• 14.2 UN proper shipping name ADR, RID, ADN, IMDG, IATA	AEROSOLS, flammable
• 14.3 Transport hazard class (es) ADR, RID, ADN, IMDG, IATA Class Label	 2 AEROSOLS 2.1
• 14.4 Packing group ADR, RID, ADN, IMDG, IATA	Void
• 14.5 Marine pollution	No
• 14.6 Special precautions for user • Danger code (Kemler) • EMS number	Warning: AEROSOLS, flammable 23 F-D,S-U
• 14.7 UN "Model Regulation"	UN 1950, AEROSOLS, flammable, 2

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):**

111-76-2	2-butoxyethanol	4
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- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.
- **Seveso category:** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 150 ton(net)
- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500 ton(net)
- **National regulations.**
- **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.
- **REACH Regulation Annex XVII Restriction:** None of the ingredients is listed.
- **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases:

H220 Extremely flammable gas
H225 Highly flammable liquid and vapour
H280 Contains gas under pressure; may explode if heated
H302 Harmful if swallowed
H312 Harmful in contact with skin
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H330 Fatal if inhaled
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H412 Harmful to aquatic life with long lasting effects

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

COD: Chemical oxygen demand

Flam. Gas 1: Flammable gas, hazard category 1

Press.Gas: Compressed gas

Flam. Liq. 2: Flammable liquids, hazard category 2

Acute Tox.2: Acute toxicity, hazard category 2

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit.2: Skin corrosion/irritation, hazard category 2

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

STOT SE 3: Specific target organ toxicity after single exposure, hazard category 3

Aquatic Chronic 3: Hazardous to the aquatic environment-chronic toxic, hazard category 3

End of safety data sheet

The test items were subcontracted to other lab.

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