

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 1 of 9

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

1.1. Product identifier

AGC FIX-IN GLASS CLEANER

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

Use of the substance/mixture

Glass and window cleaner, containing solvents

1.3. Details of the supplier of the safety data sheet

Company name:	AGC Glass Europe Headquarters	
Street:	Avenue Jean Monnet 4	
Place:	B-1348 Louvain-la-Neuve	
Telephone:	+32 2 409 30 00	Telefax: +32 2 672 44 62
e-mail:	msds@eu.agc.com	
Internet:	www.agc-store.com	

1.4. Emergency telephone number:

24h-emergency number (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aerosol: Aerosol 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

2.2. 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

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P102	Keep out of reach of children.
P211	Do not spray on an open flame or other ignition source.
P260	Do not breathe gas/fumes/vapour/spray.
P271	Use only outdoors or in a well-ventilated area.
P501	Dispose of in accordance with local regulations.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 2 of 9

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
68476-85-7	Petroleum gases, liquefied; Petroleum gas			<5%
	270-704-2	649-202-00-6		
	Flam. Gas 1, Liquefied gas; H220 H280			
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			
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether			<5%
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H312 H332 H315 H319			
7632-00-0	sodium nitrite			<1%
	231-555-9	007-010-00-4		
	Ox. Sol. 3, Acute Tox. 3, Eye Irrit. 2, Aquatic Acute 1 (M-Factor = 1); H272 H301 H319 H400			
246538-78-3	Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics			<1%
	920-901-0		01-2119456810-40	
	Asp. Tox. 1; H304			

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

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % aliphatic hydrocarbons, perfumes.

SECTION 4: First aid measures
4.1. 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.

After ingestion

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

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

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

Unsuitable extinguishing media

high volume water jet

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 3 of 9

5.2. Special hazards arising from the substance or mixture

Extremely flammable
 Vapours are heavier than air, spread along floors and form explosive mixtures with air.
 Contains gas under pressure; may explode if heated.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary .
 Use water spray to cool unopened containers.
 Remove product from area of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection.
 Do not breathe gas/vapour/aerosol.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.
 Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Provide adequate ventilation.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. 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.

Further information on handling

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
68476-85-7	Liquefied petroleum gas	1000	1750		TWA (8 h)	WEL
		1250	2180		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 4 of 9

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid	240 mmol/mol	urine	Post shift

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

- 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) .

Protective and hygiene measures

- 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.

Eye/face protection

- safety glasses with side-shields conforming to EN166

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 5 of 9

Apply skin care products after work.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	aerosol
Colour:	clear
Odour:	characteristic

Test method

Changes in the physical state

Initial boiling point and boiling range:	-40 - -2 °C
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Flash point:	<-40 °C
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Lower explosion limits:	1,8 vol. %
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Upper explosion limits:	9,5 vol. %
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Auto-ignition temperature

Gas:	410 - 580 °C
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Vapour pressure: (at 45 °C)	5900 - 17600 hPa
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Vapour density: (at 15 °C)	1,5
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Solvent content:	max. 58 g/l
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9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

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

10.5. Incompatible materials

oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

11.1. 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 6 of 9

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 mg/kg	4570	Rat	
	dermal	LD50 mg/kg	13400	Rabbit	
	inhalative (4 h) vapour	LC50	30 mg/l	Rat	
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether				
	oral	LD50 mg/kg	1480	Rat	
	dermal	LD50 mg/kg	2000	Rabbit	
	inhalative (4 h) vapour	LC50	>3,1 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
7632-00-0	sodium nitrite				
	oral	LD50 mg/kg	180	Rat	GESTIS

Irritation and corrosivity

Repeated exposure may cause skin dryness or cracking.

Contact with eyes may cause irritation.

SECTION 12: Ecological information
12.1. Toxicity

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	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 mg/l	72 h	Desmodesmus subspicatus		
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 mg/l	96 h	Lepomis macrochirus		
7632-00-0	sodium nitrite					
	Acute fish toxicity	LC50 mg/l	96 h	Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 mg/l	48 h	Daphnia magna		

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 7 of 9

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160505 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers other than those mentioned in 16 05 04

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1



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

Other applicable information (land transport)

Special Provisions: 190 - 327 - 625
2

Inland waterways transport (ADN)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1



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

Other applicable information (inland waterways transport)

Special Provisions: 190 327 625

Marine transport (IMDG)

14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 8 of 9

14.4. 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

Other applicable information (marine transport)

Special Provisions: 63, 190, 277, 327, 959

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es): 2.1

14.4. 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

Other applicable information (air transport)

Special Provisions: A145 - A153

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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: 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether

Entry 29: Petroleum gases, liquefied; Petroleum gas

National regulatory information

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H225 Highly flammable liquid and vapour.
 H229 Pressurised container: May burst if heated.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AGC FIX-IN GLASS CLEANER

Revision date: 11.09.2017

Product code: FIX-IN

Page 9 of 9

H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances 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.)