

Page 1/9

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

### SECTION 1: Identification of the substance/mixture and of the company/undertaking - 1.1 Product identifier - Trade name: GLASS CLEANER PLUS - 1.2 Relevant identified uses of the substance or mixture and uses advised against - Life cycle stages C Consumer use PW Widespread use by professional workers - Sector of Use SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) - Product category PC35 Washing and cleaning products (including solvent based products) - Application of the substance / the mixture Glass Cleaner - 1.3 Details of the supplier of the safety data sheet - Manufacturer/Supplier: MA-FRA S.p.A. a Socio Unico Via Aquileia, 44/46 20021 Baranzate (MI) ITALIA Tel.+39 023569981 www.mafra.com mafra@mafra.it - Informing department: E-mail: lab@mafra.it info@mafra.it -1.4 Emergency telephone number: In case of accident call the emergency number 112 **SECTION 2: Hazards identification** - 2.1 Classification of the substance or mixture - Classification according to Regulation (EC) No 1272/2008 The product is not classified as hazardous according to the GB CLP Regulation. - 2.2 Label elements - Labelling according to Regulation (EC) No 1272/2008 Void - Hazard pictograms Void - Signal word Void - Hazard statements Void - Additional information: Keep out of the reach of children -2.3 Other hazards - Results of PBT and vPvB assessment - PBT: Not applicable. - vPvB: Not applicable. SECTION 3: Composition/information on ingredients - 3.2 Mixtures - Description: Mixture of substances - Dangerous components: CAS: 107-98-2 1-methoxypropan-2-ol 1-<3% EINECS: 203-539-1 🚯 Flam. Liq. 3, H226; 🚺 STOT SE 3, H336 Reg.nr.: 01-2119457435-35 (Contd. on page 2) GB

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

#### Trade name: GLASS CLEANER PLUS

	(Contd	. of page 1)
CAS: 111-76-2	2-butoxyethanol	1-<3%
EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/Kg	
- Regulation (EC) No 648/20	04	
non-ionic surfactants, perfumes <5%		
- Additional information For	the wording of the listed hazard phrases refer to section 16.	

# **SECTION 4: First aid measures**

- -4.1 Description of first aid measures
- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact The product is not skin irritating.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing
- *In case of persistent symptoms consult doctor. Rinse out mouth and then drink plenty of water.*
- 4.2 Most important symptoms and effects, both acute and delayed Sickness
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed If swallowed, gastric irrigation Medical supervision for at least 48 hours

### **SECTION 5: Firefighting measures**

#### - 5.1 Extinguishing media

- Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture
- Can be released in case of fire Carbon monoxide (CO)
- 5.3 Advice for firefighters

#### - Protective equipment:

- Do not inhale explosion gases or combustion gases. Protection means for respiratory tract
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Particular danger of slipping on leaked/spilled product. Protective gloves. (EN 374)
- For non-emergency personnel Ensure adequate ventilation Keep away from ignition sources Wear protective clothing.
- For emergency responders PVC gloves Nitrile rubber, NBR
- 6.2 Environmental precautions: Dilute with much water. Do not allow to enter drainage system, surface or ground water.

Printing date 27.01.2023

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Version number 1

Revision: 27.01.2023

## Trade name: GLASS CLEANER PLUS

Dispose of - 6.4 Reference See Section See Section	ds and material for containn th liquid-binding material (so the material collected accor nce to other sections n 7 for information on safe ha n 8 for information on person n 13 for information on dispo	und, diatomite, acid binders, universal binders, sawdust). ding to regulations. andling nal protection equipment.	(Contd. of page 2)
<b>SECTIO</b>	N 7: Handling and stor	age	
No special Take off in Wash hand Do not eat	utions for safe handling precautions necessary if use mediately all contaminated ds during breaks and at the e drink or smoke while worki on about protection against o	clothing nd of the work.	
- Storage - Requireme - Informatic - Further in - Class acco		and containers: Store only in the original container. mon storage facility: Not required. nditions: None. mmable liquids: Void	
SECTIO	N 8: Exposure controls	/personal protection	
- 8.1 Contro	ol parameters		
- Componen	nts with limit values that requ	uire monitoring at the workplace:	
		uire monitoring at the workplace:	
107-98-2 1	1-methoxypropan-2-ol		
107-98-2 1 WEL Shor Long		0 ppm	
107-98-2 1 WEL Shor Long Sk	<b>I-methoxypropan-2-ol</b> rt-term value: 560 mg/m³, 150 g-term value: 375 mg/m³, 100	0 ppm	
107-98-2 1 WEL Shor Long Sk 111-76-2 2	<b>1-methoxypropan-2-ol</b> rt-term value: 560 mg/m³, 156 g-term value: 375 mg/m³, 100 <b>2-butoxyethanol</b>	0 ppm 0 ppm	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long	<b>I-methoxypropan-2-ol</b> rt-term value: 560 mg/m³, 150 g-term value: 375 mg/m³, 100	0 ppm ) ppm ppm	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long	<b>I-methoxypropan-2-ol</b> <i>t</i> -term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>P-butoxyethanol</b> <i>t</i> -term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25	0 ppm ) ppm ppm	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long Sk, H - DNELS	<b>I-methoxypropan-2-ol</b> <i>t</i> -term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>P-butoxyethanol</b> <i>t</i> -term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25	0 ppm ) ppm ppm	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long Sk, H - DNELS	<b>I-methoxypropan-2-ol</b> rt-term value: 560 mg/m <sup>3</sup> , 150 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> rt-term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 3MGV <b>I-methoxypropan-2-ol</b>	0 ppm ) ppm ppm	
107-98-2 1 WEL Shor Sk 111-76-2 2 WEL Shor Long Sk, H - DNELs 107-98-2 1	<b>I-methoxypropan-2-ol</b> rt-term value: 560 mg/m <sup>3</sup> , 150 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> rt-term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 3MGV <b>I-methoxypropan-2-ol</b>	0 ppm 0 ppm ppm ppm	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long Sk, I -DNELs 107-98-21 Oral	<b>-methoxypropan-2-ol</b> rt-term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> rt-term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 BMGV <b>-methoxypropan-2-ol</b> Systemic Long-term Effects	0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers)	
107-98-21           WEL         Shor           Long         Sk           111-76-22         WEL           WEL         Shor           Long         Sk, E           - DNELs         107-98-21           Oral         Dermal	<b>-methoxypropan-2-ol</b> rt-term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> rt-term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 BMGV <b>-methoxypropan-2-ol</b> Systemic Long-term Effects	0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers)	
107-98-21           WEL         Shor           Long         Sk           111-76-22         WEL           WEL         Shor           Long         Sk, E           - DNELs         107-98-21           Oral         Dermal	<b>I-methoxypropan-2-ol</b> T-term value: 560 mg/m <sup>3</sup> , 150 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> T-term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 3MGV <b>I-methoxypropan-2-ol</b> Systemic Long-term Effects Systemic long-term effects	0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers)	
107-98-21           WEL         Shor           Long         Sk           111-76-22         WEL           WEL         Shor           Long         Sk, E           - DNELs         107-98-21           Oral         Dermal	<b>-methoxypropan-2-ol</b> t-term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> t-term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 BMGV <b>4-methoxypropan-2-ol</b> Systemic Long-term Effects Systemic long-term effects Local short-term effects	0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers)	
107-98-21           WEL         Shor           Long         Sk           111-76-22         WEL           WEL         Shor           Long         Sk, E           - DNELs         107-98-21           Oral         Dermal	<b>I-methoxypropan-2-ol</b> <i>t</i> -term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> <i>t</i> -term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 BMGV <b>I-methoxypropan-2-ol</b> Systemic Long-term Effects Systemic long-term effects Systemic long-term effects Systemic long-term effects	0 ppm 0 ppm 0 ppm ppm 50.6 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers)	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long Sk, H - DNELs 107-98-21 Oral Dermal Inhalative	<b>I-methoxypropan-2-ol</b> <i>t</i> -term value: 560 mg/m <sup>3</sup> , 156 g-term value: 375 mg/m <sup>3</sup> , 100 <b>2-butoxyethanol</b> <i>t</i> -term value: 246 mg/m <sup>3</sup> , 50 g-term value: 123 mg/m <sup>3</sup> , 25 BMGV <b>I-methoxypropan-2-ol</b> Systemic Long-term Effects Systemic long-term effects Systemic long-term effects Systemic long-term effects	0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 43.9 mg/m <sup>3</sup> (Consumers)	
107-98-21 WEL Shor Long Sk 111-76-22 WEL Shor Long Sk, H - DNELs 107-98-21 Oral Dermal Inhalative	<b>-methoxypropan-2-ol</b> t-term value: 560 mg/m³, 150 g-term value: 375 mg/m³, 100 <b>2-butoxyethanol</b> t-term value: 246 mg/m³, 50 g-term value: 123 mg/m³, 25 3MGV <b>1-methoxypropan-2-ol</b> Systemic Long-term Effects Systemic Short-term Effects <b>2-butoxyethanol</b>	0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 43.9 mg/m <sup>3</sup> (Consumers)	
107-98-2 1 WEL Shor Long Sk 111-76-2 2 WEL Shor Long Sk, E - DNELs 107-98-2 1 Oral Dermal Inhalative 111-76-2 2	<b>-methoxypropan-2-ol</b> <i>t</i> -term value: 560 mg/m³, 156 g-term value: 375 mg/m³, 100 <b>2-butoxyethanol</b> <i>t</i> -term value: 246 mg/m³, 50 g-term value: 123 mg/m³, 25 BMGV <b>4-methoxypropan-2-ol</b> Systemic Long-term Effects Systemic long-term effects Systemic long-term effects Systemic long-term effects Systemic Short-term Effects <b>5-butoxyethanol</b> Systemic Long-term Effects	0 ppm 0 ppm 0 ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Consumers) 369 mg/m <sup>3</sup> (Consumers) 369 mg/m <sup>3</sup> (Industrial Workers)	
107-98-2 1 WEL Shor Long Sk 111-76-2 2 WEL Shor Long Sk, E - DNELs 107-98-2 1 Oral Dermal Inhalative 111-76-2 2	I-methoxypropan-2-ol T-term value: 560 mg/m³, 156 g-term value: 375 mg/m³, 100 P-butoxyethanol T-term value: 246 mg/m³, 50 g-term value: 123 mg/m³, 25 BMGV I-methoxypropan-2-ol Systemic Long-term Effects Systemic long-term effects Systemic long-term effects Systemic long-term effects Systemic Short-term Effects Systemic Short-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects	0 ppm 0 ppm ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 43.9 mg/m <sup>3</sup> (Consumers) 369 mg/m <sup>3</sup> (Industrial Workers) 6.3 mg/Kg bw/day (Consumers)	
107-98-21         WEL       Shor         Long       Sk         111-76-22       WEL         WEL       Shor         Long       Sk         II1-76-22       Oral         Oral       Dermal         Inhalative       Inhalative         111-76-22       Oral	I-methoxypropan-2-ol T-term value: 560 mg/m³, 156 g-term value: 375 mg/m³, 100 P-butoxyethanol T-term value: 246 mg/m³, 50 g-term value: 123 mg/m³, 25 BMGV I-methoxypropan-2-ol Systemic Long-term Effects Systemic long-term effects Systemic long-term effects Systemic long-term effects Systemic Short-term Effects Systemic Short-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects Systemic Long-term Effects	0 ppm 0 ppm ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 43.9 mg/m <sup>3</sup> (Consumers) 369 mg/m <sup>3</sup> (Industrial Workers) 6.3 mg/Kg bw/day (Consumers) 26.7 mg/m <sup>3</sup> (Consumers)	
107-98-21         WEL       Shor         Long       Sk         111-76-22       WEL         WEL       Shor         Long       Sk         II1-76-22       Oral         Oral       Dermal         Inhalative       Inhalative         111-76-22       Oral	I-methoxypropan-2-ol t-term value: 560 mg/m³, 156 g-term value: 375 mg/m³, 100 P-butoxyethanol t-term value: 246 mg/m³, 50 g-term value: 123 mg/m³, 25 BMGV I-methoxypropan-2-ol Systemic Long-term Effects Systemic long-term effects Systemic long-term effects Systemic long-term effects Systemic Short-term Effects Systemic Short-term Effects Systemic Long-term effects	0 ppm 0 ppm ppm ppm ppm ppm 3.3 mg/Kg bw/day (Consumers) 50.6 mg/Kg bw/day (Industrial Workers) 18.1 mg/Kg bw/day (Consumers) 553.5 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 369 mg/m <sup>3</sup> (Industrial Workers) 6.3 mg/Kg bw/day (Consumers) 26.7 mg/m <sup>3</sup> (Consumers) 125 mg/Kg bw/day (Industrial Workers)	

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

Trade name: GLASS CLEANER PLUS

			(Contd. of pag
<del>,</del> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	T 11		89 mg/Kg bw/day (Consumers)
Inhalative	Local long	-term effects	67.5 mg/m <sup>3</sup> (Industrial Workers)
			$40.5 \text{ mg/m}^3$ (Consumers)
	Local shor	t-term effects	246 mg/m <sup>3</sup> (Industrial Workers)
			147 mg/m <sup>3</sup> (Consumers)
	Systemic lo	ong-term effects	98 mg/m³ (Industrial Workers)
			59 mg/m <sup>3</sup> (Consumers)
	Systemic S	hort-term Effects	1,091 mg/m <sup>3</sup> (Industrial Workers)
			426 mg/m <sup>3</sup> (Consumers)
67-63-0 pr	opan-2-ol		
Oral	Systemic L	ong-term Effects	26 mg/Kg bw/day (Consumers)
Dermal	Systemic lo	ong-term effects	888 mg/Kg bw/day (Industrial Workers)
			319 mg/Kg bw/day (Consumers)
Inhalative	Local long	-term effects	mg/m³ (Industrial Workers)
			55 mg/m <sup>3</sup> (Consumers)
	Systemic lo	ong-term effects	500 mg/m³ (Industrial Workers)
			89 mg/m <sup>3</sup> (Consumers)
PNECs			
	-methoxyn	ropan-2-ol	
PNEC STF		100 mg/L (STP)	
Soil		4.59 mg/Kg (Soil	1)
Soft Water		10 mg/L (Water)	
Sea water			
	a oft water)	1 mg/L (Water)	1)
		52.3 mg/Kg (Soil	
		5.2 mg/Kg (Soil)	
	e-butoxyeth		
PNEC STP		463 mg/L (STP)	
Soil		2.33 mg/Kg (Soil	
Soft Water		8.8 mg/L (Water)	
Sea water		0.88 mg/L (Wate	
•	•	34.6 mg/Kg (Soil	
	,	3.46 mg/Kg (Soil	
		26.4 mg/L (Wate	r)
67-63-0 pr	*		
PNEC STP	)	2,251 mg/L (STP	$\mathcal{D}$
Soil 28 mg/Kg (Soil)		28 mg/Kg (Soil)	
Soft Water 140.9 mg/L (Wate		140.9 mg/L (Wat	ter)
Sea water 140.9 mg/L (Wate		140.9 mg/L (Wat	ter)
Sediment (soft water) 552 mg/Kg (Soil)		552 mg/Kg (Soil)	)
Sediment (sea water) 552 mg/Kg (Soil)		552 mg/Kg (Soil)	
Occasional Emission 140.9 mg/L (Wat		140.9 mg/L (Wat	ter)
Ingredient	s with biolo	ogical limit value	s:
-	-butoxyeth	-	
		l creatinine	
$D V (V V V ) \neq$			
	edium: urin	e	
Me Sa	mpling time	e e: post shift utoxyacetic acid	

GB

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

Trade name: GLASS CLEANER PLUS

(Contd. of page 4) - Additional information: The lists that were valid during the compilation were used as basis. - 8.2 Exposure controls - Appropriate engineering controls No further data; see item 7. - Individual protection measures, such as personal protective equipment - General protective and hygienic measures Wash hands during breaks and at the end of the work. - Breathing equipment: Not required. - Hand protection Protective gloves. (EN 374) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Preventive skin protection by use of skin-protecting agents is recommended. - Material of gloves PVC gloves Nitrile rubber, NBR - Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. - Eye/face protection Safety glasses recommended during refilling. - Environmental exposure controls Disposal must be made according to official regulations.

<b>SECTION 9: Physical and chemical properties</b>	
-9.1 Information on basic physical and chemical property	ies
- General Information	
- Physical state	Fluid
- Colour:	Light blue
- Odour:	Pleasant
- Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>	0 °C
- Boiling point or initial boiling point and boiling range	>100 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
-Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	Not applicable
- Decomposition temperature:	Not determined.
- pH at 20 °C	5
- Viscosity:	
- Kinematic viscosity	Not determined.
- dynamic at 20 °C:	0.952 mPas
- Solubility	
- Water:	Fully miscible
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure at 20 °C:	23 hPa
- Density and/or relative density	
- Density at 20 °C	$l g/cm^3$
- Relative density	Not determined.
- Vapour density	Not determined.

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

Trade name: GLASS CLEANER PLUS

		(Contd. of page
- 9.2 Other information		
- Appearance:		
- Form:	Liquid	
-Important information on protection of he	ealth and	
environment, and on safety.		
- Self-inflammability:	Product is not selfigniting.	
- Explosive properties:	Product is not explosive.	
- Change in condition	-	
- Evaporation rate	Not determined.	
- Information with regard to physical hazard clas	ses	
- Explosives	Void	
- Flammable gases	Void	
- Aerosols	Void	
- Oxidising gases	Void	
- Gases under pressure	Void	
- Flammable liquids	Void	
- Flammable solids	Void	
- Self-reactive substances and mixtures	Void	
- Pyrophoric liquids	Void	
- Pyrophoric solids	Void	
- Self-heating substances and mixtures	Void	
- Substances and mixtures, which emit flammabl	e gases in	
contact with water	Void	
- Oxidising liquids	Void	
- Oxidising solids	Void	
- Organic peroxides	Void	
- Corrosive to metals	Void	
- Desensitised explosives	Void	

# **SECTION 10: Stability and reactivity**

- 10.1 Reactivity Stable under normal conditions

- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known

- 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available.

- 10.6 Hazardous decomposition products: No dangerous decomposition products known

# **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC5	0 valu	es that are relevant for classification:	
107-98-2	2 1-me	ethoxypropan-2-ol	
		4,016 mg/Kg (Rat)	
Dermal	LD50	>2,000 mg/Kg (Rat) 13,500 mg/Kg (Rabbit)	
		13,500 mg/Kg (Rabbit)	
111-76-2	2 2-but	toxyethanol	
Oral	LD50	1,200 mg/Kg (ATE)	
		>2,000 mg/Kg (Rabbit)	
		1,746 mg/Kg (Rat)	
		(Contd. on page )	7)

GB

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

(Contd. of page 6)

List II

GB

Trade name: GLASS CLEANER PLUS

Dermal LD50 >2,000 mg/Kg (Rat)

67-63-0 propan-2-ol

Oral LD50 5,840 mg/Kg (Rat)

Dermal LD50 mg/Kg (Rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation 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.

-11.2 Information on other hazards

- Endocrine disrupting properties

1222-05-5 Abbalide

## **SECTION 12: Ecological information**

#### -12.1 Toxicity

- Aquatic tox	icity:
107-98-2 1-	methoxypropan-2-ol
LC50 (4 h)	6 mg/L (Rat)
LC50 (96h)	>100 mg/L (Algae)
	4,600 mg/L (Fish)
EC50 (48h)	23,300 mg/L (Daphnia)
EC50 (96h)	>1,000 mg/L (Algae)
	20,800 mg/L (Fish)
111-76-2 2-	butoxyethanol
LC50 (96h)	1,474 mg/L (Fish)
EC50 (48h)	1,550 mg/L (Daphnia)
EC50 (72h)	911 mg/L (Algae)
67-63-0 pro	pan-2-ol
LC50 (4 h)	24.6 mg/L (Rat)
LC50 (96h)	>100 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50(72h)	$> 100 \dots - (I_{1}(1 - 1))$

EC50 (72h) > 100 mg/L (Algae)

- 12.2 Persistence and degradability The contained surfactants are easily biodegradable

- 12.3 Bioaccumulative potential No further relevant information available.

- 12.4 Mobility in soil No further relevant information available.

-12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

- 12.7 Other adverse effects

- Additional ecological information:

- General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent (Contd. on page 8)

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

Trade name: GLASS CLEANER PLUS

manufacturer.

(Contd. of page 7)

# **SECTION 13: Disposal considerations**

- -13.1 Waste treatment methods
- Recommendation
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	011
- 14.1 UN number or ID number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according instruments	<b>to IMO</b> Not applicable.

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- National regulations
- Classification according to VbF: Void
- Technical instructions (air):

Class	Share in %
NK	5.0

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

- Relevant phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

 $(Contd. \ on \ page \ 9)$ 

GB

Printing date 27.01.2023

Version number 1

Revision: 27.01.2023

### Trade name: GLASS CLEANER PLUS

	(Contd. of page 8
Department issuing data specification s	heet: Ma-Fra Laboratories
Contact: lab@mafra.it	
Abbreviations and acronyms:	
RID: Règlement international concernant le tran	nsport des marchandises dangereuses par chemin de fer (Regulations Concerning the Internationa
Transport of Dangerous Goods by Rail)	
ICAO: International Civil Aviation Organisation	
	andises dangereuses par Route (European Agreement concerning the International Carriage of
Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangeron	is Goods
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification	
EINECS: European Inventory of Existing Commer	
ELINCS: European List of Notified Chemical Subs	
CAS: Chemical Abstracts Service (division of the A	
	Österreich (Ordinance on the storage of combustible liquids, Austria)
DNEL: Derived No-Effect Level (UK REACH)	
PNEC: Predicted No-Effect Concentration (UK RE	EACH)
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Co	
STOT SE 3: Specific target organ toxicity (single e	xposure) – Category 3
* Data compared to the previous version	n altarad