

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 1/11

Glass Cleaner Concentrate

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

1.1 Product identifier

Trade name/designation:

Glass Cleaner Concentrate

Article No.:

SRK-100, SRK-950

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, flammable

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ProGlass GmbH

Michael-Becker-Str. 2

73235 Weilheim an der Teck

GERMANY

Telephone: +49 7023 90013-0

Telefax: +49 7023 90013-23

E-mail: info@proglass.de

Website: www.proglass.de

E-mail (competent person): info@proglass.de

1.4 Emergency phone number

24h: +49 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Test data
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02

Flame



GHS07

Exclamation mark

Signal word: Danger

Hazard components for labelling:

2-Propanol

Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 2/11

proGlass[®]

Glass Cleaner Concentrate

Hazard statements for health hazards

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information (EU): -

Precautionary statements - Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

Special rules for supplemental label elements for certain mixtures:

Labelling for contents according to regulation (EC) No. 648/2004:

5 - 15 % anionic surfactants

2.3 Other hazards

Adverse human health effects and symptoms:

May cause skin irritation.




SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description:

Isopropanol, additives in aqueous solution

Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	2-Propanol Eye Irrit. 2, Flam. Liq. 2, STOT SE 3   Danger H225-H319-H336	25 - 50 Wt %
CAS No.: 68411-31-4 EC No.: 270-116-6	Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine Eye Irrit. 2, Skin Irrit. 2  Warning H315-H319	5 - 15 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of 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 victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 3/11



Glass Cleaner Concentrate

In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion:

Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye irritation. Drowsiness, Dizziness. May cause skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Vapours can form explosive mixtures with air. Reignition possible over considerable distance. Heating causes rise in pressure with risk of bursting. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray to keep fire-exposed containers cool. Heat: Thermal decomposition.

Hazardous combustion products:

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂), gases/vapours, toxic.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions:

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes and skin. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Disposal: see section 13.

For cleaning up:

Water with tenside additive

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 4/11



Glass Cleaner Concentrate

6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5 Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothes. Repeated exposure may cause skin dryness or cracking. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Use explosion-proof electrical equipment. Temperature class: T3. Vapours can form explosive mixtures with air. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Beware of reignition. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

Wash hands before breaks and after work. When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse. Apply skin care products after work. Draw up and observe skin protection programme.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container.

Hints on storage assembly:

Keep away from combustible material. Do not store together with: oxidizing agent. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions:

Protect from sunlight.

7.3 Specific end use(s)

Recommendation:

Glass and window cleaner, containing solvents, flammable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 5/11

Glass Cleaner Concentrate

SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	2-Propanol CAS No.: 67-63-0	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)
WEL (GB)	2-Butoxyethanol CAS No.: 111-76-2	① 25 ppm (123 mg/m ³) ② 50 ppm (246 mg/m ³)
IOELV (EU)	2-Butoxyethanol CAS No.: 111-76-2	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2 Biological limit values

Limit value type (country)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling ④ Remark
BMGV (GB)	2-Butoxyethanol CAS No.: 111-76-2	240 mmol/ mol creatinine	① Butoxyacetic acid ② urine ③ end of exposure or end of shift

8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-Propanol CAS No.: 67-63-0	500 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
2-Propanol CAS No.: 67-63-0	89 mg/m ³	① DNEL consumer ② DNEL long-term inhalative (systemic)
2-Propanol CAS No.: 67-63-0	888 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
2-Propanol CAS No.: 67-63-0	319 mg/kg	① DNEL consumer ② DNEL long-term dermal (systemic)
2-Propanol CAS No.: 67-63-0	26 mg/kg	① DNEL consumer ② DNEL long-term oral (repeated)
2-Butoxyethanol CAS No.: 111-76-2	246 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
2-Butoxyethanol CAS No.: 111-76-2	98 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
2-Butoxyethanol CAS No.: 111-76-2	89 mg/kg bw/day	① DNEL worker ② DNEL acute dermal, short-term (systemic)
2-Butoxyethanol CAS No.: 111-76-2	75 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

proGlass[®]

Page 6/11

Glass Cleaner Concentrate

Substance name	PNEC value	① PNEC type
2-Propanol CAS No.: 67-63-0	140.9 mg/L	① PNEC aquatic, freshwater
2-Propanol CAS No.: 67-63-0	140.9 mg/L	① PNEC aquatic, marine water
2-Propanol CAS No.: 67-63-0	140.9 mg/L	① PNEC aquatic, intermittent release
2-Propanol CAS No.: 67-63-0	2,251 mg/L	① PNEC sewage treatment plant (STP)
2-Propanol CAS No.: 67-63-0	552 mg/kg	① PNEC sediment, freshwater
2-Propanol CAS No.: 67-63-0	28 mg/kg	① PNEC soil, freshwater
2-Propanol CAS No.: 67-63-0	160 mg/kg	① PNEC Secondary Poisoning
2-Butoxyethanol CAS No.: 111-76-2	8.8 mg/L	① PNEC aquatic, freshwater
2-Butoxyethanol CAS No.: 111-76-2	0.88 mg/L	① PNEC aquatic, marine water
2-Butoxyethanol CAS No.: 111-76-2	8.14 mg/kg	① PNEC sediment, freshwater
2-Butoxyethanol CAS No.: 111-76-2	2.8 mg/kg	① PNEC soil, freshwater
2-Butoxyethanol CAS No.: 111-76-2	463 mg/L	① PNEC sewage treatment plant (STP)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Generation/formation of aerosols: Devices with local exhaust / Technical ventilation of workplace

8.2.2 Personal protection equipment



Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: $\geq 0,35$ mm

Breakthrough time (maximum wearing time): ≤ 480 min

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. The exact breakthrough time must be requested from the protective glove manufacturer and must be observed. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device with filter or ventilator filtering device of type: A

Other protection measures:

Wear anti-static footwear and clothing

8.2.3 Environmental exposure controls

No data available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 7/11

Glass Cleaner Concentrate

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: light red

Odour: like: Alcohol

Safety relevant basic data

Parameter		at	Method	Remark
pH	7.4			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	≥ 82 °C			(Isopropanol)
Decomposition temperature	<i>not determined</i>			
Flash point	21 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	425 °C			
Upper/lower flammability or explosive limits	2 - 12 %			
Vapour pressure	43 hPa	20 °C		
Vapour density	<i>not determined</i>			
Density	0.911 g/ml	20 °C		
Bulk density	<i>not applicable</i>			
Water solubility	completely miscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity				
VOC content	456 g/L			

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions/Exothermic reaction with: Oxidizing agent ; Acidn, Alkali (lye), Light metals (Formation of: Hydrogen). Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5 Incompatible materials

oxidizing agent, strong; Acids, Alkali (lye)

10.6 Hazardous decomposition products

No known hazardous decomposition products.

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂), gases/vapours, toxic.

Further information

No data available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 8/11

Glass Cleaner Concentrate

SECTION 11: Toxicological information

11.1 Information on toxicological effects

CAS No.	Substance name	Toxicological information
67-63-0	2-Propanol	LD₅₀ oral: 5,840 mg/kg (Rat) LD₅₀ dermal: 13,900 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (gas): 25 mg/L 4 h (Rat)
111-76-2	2-Butoxyethanol	LD₅₀ oral: 1,480 mg/kg (Rat) LD₅₀ dermal: 400 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (gas): 2 - 20 ppmV 4 h (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.
Has degreasing effect on the skin. May cause skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

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:

May cause drowsiness or dizziness.

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.

Additional information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

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

Assessment/classification:

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 9/11

Glass Cleaner Concentrate

12.2 Persistence and degradability

Additional information:

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

12.3 Bioaccumulative potential

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.





Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal. Do not allow to enter into surface water or drains.

13.2 Additional information

Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.1 UN-No.			
1219	1219	1219	1219
14.2 UN proper shipping name			
ISOPROPANOL (ISOPRO- PYL ALCOHOL), SOLU- TION	ISOPROPANOL (ISOPRO- PYL ALCOHOL), SOLU- TION	ISOPROPANOL (ISOPRO- PYL ALCOHOL), SOLU- TION	ISOPROPANOL (ISOPRO- PYL ALCOHOL), SOLU- TION
14.3 Transport hazard class(es)			
 3	 3	 3	 3
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
No	No	No	No

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 10/11



Glass Cleaner Concentrate

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
-----------------------------	--------------------------------	-------------------------	--------------------------------------

14.6 Special precautions for user

No data available.

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

not determined

Additional information:

Transport as "Limited Quantity" according to chapter 3.4 ADR/RID

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU legislation

Other EU regulations:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2:

Section 2, 3: classification/Label elements

General revision

Changes executed in version 2.1:

Section 14: UN number, UN proper shipping name

General revision

16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörsatz Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Test data
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-Nov-2019

Print date: 08-Nov-2019

Version: 2.1

Page 11/11



Glass Cleaner Concentrate

16.5 Relevant H- and EUH-phrases

Hazard statements	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.