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

1.1 Product identifier

Trade name/designation:

Pre-Cleaner

Other means of identification:

UFI: G300-P0H0-4003-GPXD

Article No.: **VRS-1000**

1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Cleaning agent.

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
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	Calculation
Flammable liquids (Flam. Liq. 2)	H225: Highly flammable liquid and vapour.	Test data
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	Calculation
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	Calculation
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	Calculation
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] **Hazard pictograms:**







GHS07 **Exclamation mark**



Health hazard



Environment

Flame Signal word: Danger

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Hazard components for labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane; butanone

Hazard statements	for physical hazards
H225	Highly flammable liquid and vapour.

Hazard statements for health hazards		
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary s	Precautionary statements - Prevention		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smo-king.		
P243	Take action to prevent static discharges.		
P260	Do not breathe dust/fume/gas/mist/vapours/spray.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		

Precautionary statements - Response	
P301+P310	IF SWALLOWED: Immediately call a doctor.

Special rules for supplemental label elements for certain mixtures:

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

> 30 % aliphatic hydrocarbons

2.3 Other hazards

Adverse human health effects and symptoms:

May cause eye irritation.

Adverse environmental effects:

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

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
EC No.: 921-024-6 REACH No.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3, Skin Irrit. 2	> 50 weight-%
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43	Ethanol Eye Irrit. 2, Flam. Liq. 2 Danger H225-H319	> 30 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0 REACH No.: 01-2119457290-43	butanone Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 Danger H225-H319-H336-EUH066	5 – 15 weight-%

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

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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 immediately. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

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.

Following ingestion:

Rinse mouth. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Respiratory complaints, Headache, Dizziness, Pulmonary oedema, Pneumonia. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment neededTreat 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.

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. Fire class: B.

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. Special danger of slipping by leaking/spilling product. Remove persons to safety.

Protective equipment:

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

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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.

Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Clean floors and contaminated objects with: Water with tenside additive

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. Store in a cool dry place. Keep away from heat.

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:

Cleaning agent.

Observe instructions for use.

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SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	 Long-term occupational exposure limit value Short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
WEL (GB)	Ethanol CAS No.: 64-17-5	① 1,000 ppm (1,920 mg/m³)
IOELV (EU)	butanone CAS No.: 78-93-3	① 200 ppm (600 mg/m³) ② 300 ppm (900 mg/m³)
WEL (GB)	butanone CAS No.: 78-93-3	① 200 ppm (600 mg/m³) ② 300 ppm (899 mg/m³)

8.1.2 Biological limit values

No data available.

8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type
		② Exposure route
Ethanol	600 mg/m ³	① DNEL worker
CAS No.: 64-17-5		② Long-term – inhalation, systemic effects
Ethanol	106 mg/m ³	① DNEL worker
CAS No.: 64-17-5		② Long-term – inhalation, systemic effects
Ethanol	114 mg/m³	① DNEL consumer
CAS No.: 64-17-5		② Long-term – inhalation, systemic effects
Ethanol	1,900 mg/m ³	① DNEL worker
CAS No.: 64-17-5		② Acute - inhalation, local effects
Ethanol	950 mg/m ³	① DNEL worker
CAS No.: 64-17-5		② Acute - inhalation, local effects
Ethanol	1,161 mg/kg	① DNEL worker
CAS No.: 64-17-5	bw/day	② Long-term - dermal, systemic effects
Ethanol	412 mg/kg	① DNEL worker
CAS No.: 64-17-5	bw/day	② Long-term - dermal, systemic effects
Ethanol	206 mg/kg	① DNEL consumer
CAS No.: 64-17-5		② Long-term - dermal, systemic effects
Ethanol	31 mg/kg	① DNEL worker
CAS No.: 64-17-5	bw/day	② Long-term - oral, systemic effects
Ethanol	87 mg/kg	① DNEL consumer
CAS No.: 64-17-5		② Acute – oral, systemic effects
butanone	106 mg/m ³	① DNEL worker
CAS No.: 78-93-3		② Long-term – inhalation, systemic effects
butanone	412 mg/kg	① DNEL worker
CAS No.: 78-93-3	bw/day	② Long-term - dermal, local effects
butanone	31 mg/kg	① DNEL worker
CAS No.: 78-93-3	bw/day	② Long-term - oral, systemic effects

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Substance name	PNEC value	① PNEC type
Ethanol CAS No.: 64-17-5	0.96 mg/L	① PNEC aquatic, freshwater
Ethanol CAS No.: 64-17-5	0.79 mg/L	① PNEC aquatic, marine water
Ethanol CAS No.: 64-17-5	3.6 mg/kg	① PNEC sediment, freshwater
Ethanol CAS No.: 64-17-5	287.7 mg/kg	① PNEC sediment, marine water
Ethanol CAS No.: 64-17-5	0.63 mg/kg	① PNEC soil, freshwater
butanone CAS No.: 78-93-3	55.8 mg/L	① PNEC aquatic, freshwater
butanone CAS No.: 78-93-3	55.8 mg/L	① PNEC aquatic, marine water
butanone CAS No.: 78-93-3	709 mg/L	① PNEC sewage treatment plant
butanone CAS No.: 78-93-3	55.8 mg/L	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3	22.5 mg/kg	① PNEC soil, freshwater

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: Technical ventilation of workplace

8.2.2 Personal protection equipment







Eve/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Wear suitable gloves (EN ISO 374). Suitable material: NBR (Nitrile rubber)

Material thickness: ≥ 0,4 mm Breakthrough 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. 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. Recommendation: Draw up and observe skin protection programme.

Respiratory protection:

Usually no personal respirative protection necessary. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Suitable respiratory protection apparatus: Filter type A.

Other protection measures:

Wear anti-static footwear and clothing

8.2.3 Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid Colour: colourless

Odour: after Gasoline

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

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Safety relevant basic data

Parameter		at	Method	Remark
рН	not applicable			
Melting point	< -20 °C			
Freezing point	not determined			
Initial boiling point and boiling range	63 - 100 °C			
Decomposition temperature	not determined			
Flash point	-2 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	0.6 - 15 Vol-%			
Vapour pressure	≈ 200 hPa	20 °C		
Vapour density	not determined			
Density	0.8 - 0.9 g/cm ³	20 °C		
Bulk density	not applicable			
Water solubility	≈ 0.02 g/L	20 °C		
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	≤ 20.5 mm²/s	40 °C	DIN 51562	
Ignition temperature	400 °C			

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

No hazardous reaction when handled and stored according to provisions. Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Oxidising agent, strong

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

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Skin corrosion/irritation:

Causes 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:

May be fatal if swallowed and enters airways.

Additional information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Additional ecotoxicological information:

No data available.

12.2 Persistence and degradability

Biodegradation:

No data available.

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

CAS No.	Substance name	Results of PBT and vPvB assessment
78-93-3	butanone	_

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.

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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	Inland waterway	Sea transport	Air transport
(ADR/RID)	craft (ADN)	(IMDG)	(ICAO-TI-/IATA-DGR)
14.1 UN-No.			
1993	1993	1993	1993
14.2 UN proper ship	ping name		
FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, iso- alkanes, cyclics, < 5 % n-hexane, Ethanol)	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, iso- alkanes, cyclics, < 5 % n-hexane, Ethanol)	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, iso- alkanes, cyclics, < 5 % n-hexane, Ethanol)	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, iso- alkanes, cyclics, < 5 % n-hexane, Ethanol)
14.3 Transport haza	rd class(es)		,
*	*	*	*
3	3	3	3
14.4 Packing group			
II	II	II	II
14.5 Environmental	hazards		
***	¥2>	<u>*</u>	***
		MARINE POLLUTANT	
14.6 Special precau	tions for user		
No data available.			

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

not relevant

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

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

VOC content (EU): 596,6 g/L

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15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2.0:

Section 2, 3, 11, 14: classification/Label elements

General revision

Changes executed in version 3.0:

Section 1: UFI

Section 2: classification/Label elements

Section 3: Composition/Information on Ingredients

Section 9: Physical and Chemical Properties

Section 14: Transport Information (non-mandatory)

Section 15: Regulatory Information (non-mandatory)

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

Hörath 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
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	Calculation
Flammable liquids <i>(Flam. Liq. 2)</i>	H225: Highly flammable liquid and vapour.	Test data
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	Calculation
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	Calculation
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	Calculation
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation

16.5 Relevant H- and EUH-phrases

Hazard statements		
H225	Highly flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

No data available.

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

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16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was upto-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.