Safety Data Sheet
Glass Cleaner

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name — Glass Cleaner

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

Relevant identified uses of the substance or mixture

Identified uses — Quick Drying Glass Cleaner

1.3. Details of the supplier of the safety data sheet

Manufactured for PMA
83 Ducie Street
Manchester
M1 2JQ
+44 (0)333 313 3349
info@pmachemicals.co.uk

2. Hazards identification

2.1. Classification of the substance or mixture:

The product is not classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

2.2. Label elements: This product is not subject to hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.

Warning symbols: None.

Hazard sentences (R): None.

Caution recommendations (S): None.

Safety data sheet available for users on request.

2.3. Other hazards: None

2.3. Other hazards

3. Composition/information on ingredients

3.1. Substances.: Information not relevant

3.2. Mixtures

ETHANOL		**<20%**
CAS-No.: 64-17-5	**EC No.: 200-578-6**	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319		Classification (67/548/EEC) F;R11
METHANOL		**<2%**
CAS-No.: 67-56-1	EC No.: 200-659-6	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25

4. First aid measures

4.1. Description of first aid measures

Inhalation

Remove victim immediately from source of exposure. Move into fresh air and keep at rest.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

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

Treat Symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray, fog or mist.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards: Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Solvent vapours may form explosive mixtures with air.

Specific hazards

When heated and in case of fire, toxic vapours/gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO2). Vapours may be ignited by a spark, a hot surface or an ember. Vapours are heavier than air and may travel along the floor and in the bottom of containers.
Vapours may be ignited by a spark, a hot surface or an ember.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Water spray should be used to cool containers. Wear self contained breathing apparatus

Protective equipment for fire-fighters

Wear full protective clothing. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Eye contact MUST be prevented by means of suitable personal protection equipment. Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. Avoid contact with eyes and prolonged skin contact.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Clean-up personnel should use respiratory and/or liquid contact protection. Wash thoroughly after dealing with a spillage. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb with inert, damp, non-combustible material, then flush area with water. Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid eating, drinking and smoking when using the product. Avoid inhalation of vapours and spray mists. Do not use in confined spaces without adequate ventilation and/or respirator.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Keep upright. Keep away from heat, sparks and open flame. Avoid contact with oxidising agents. Ground container and transfer equipment to eliminate static electric sparks. Take precautionary measures against static

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discharges. Treat as Flammable liquid storage. For warehouse.

7.3. Specific end use(s)

Usage Description: Alchohol based ice defroster

8. Exposure controls/personal protection

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANOL 100%	WEL	1000 ppm	1920 mg/m3			
METHANOL 100%	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Ventilation: No specific recommendation noted except this product must not be used in a confined space without good ventilation.

Respirators: No specific recommendation made as there are no known adverse affects.

Protective Gloves: Chemical resistant gloves required for prolonged or repeated contact.

Eye protection: Wear approved safety goggles.

Other Protection: Provide eyewash station. Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures: Wash hands after contact. Promptly remove any clothing that becomes contaminated. Eating, smoking and water fountains prohibited in immediate work area.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: liquid

Colour: Blue

Odour: Mild Odour of alcohol.

Solubility: Completely soluble in water

9.2. Other information

10: Stability and reactivity

10.1. Reactivity

10.1. Reactivity: There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability: The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions: No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid: None in particular, however the usual precautions used for chemical products should be respected.

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10.5. Incompatible materials:	Information not available.
10.6. Hazardous decomposition products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2).

11: Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

11.1. Information on toxicological effects:	Information not available.

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should large quantities of the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.:	Information not available.
12.2. Persistence and degradability:	Information not available.
12.3. Bio accumulative potential:	The product does not contain any substances expected to be bio accumulating.
12.4. Mobility:	Miscible in water.
12.5. Results of PBT and vPvB assessment:	Not identified as a PBT and vPvB
12.6. Other adverse effects	Information not available

13. Disposal considerations

13.1. Waste treatment methods

Product	Product should disposed in accordance with relevant regulations .

14. Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADNR	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user	See sections 6 to 8 of this Safety Data Sheet.

15. Regulatory information

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

Other regulations:	Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.
15.2. Chemical safety assessment:	No chemical safety assessment has been processed for the mixture and the substances it contains.

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16. Other information

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution From Ships
OEL	Occupational Exposure Limit
PBT	Persistent, Bio accumulative, Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bio accumulative

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.

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