



SAFETY DATA SHEET
GLASS CLEANER

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

<u>1.1. Product identifier</u>	
Product Name	GLASS CLEANER
Internal ID	MTS 0006
<u>1.2. Relevant identified uses of the substance or mixture and uses advised against</u>	
Identified uses	Cleaning agent
Uses advised against	Use only for intended applications.
<u>1.3. Details of the supplier of the safety data sheet</u>	
Supplier	Motor Trade Supplies Ltd Unit 5 Preston Nurseries Weghill Road Hull HU12 8SX +44 (0) 7778 411 723 sales@mtsproducts.co.uk
<u>1.4. Emergency telephone number</u>	
Emergency telephone	+44 (0) 7778 411 723 Opening Hours 9 am - 4 pm (Monday - Friday)

SECTION 2: Hazards identification

<u>2.1. Classification of the substance or mixture Classification (EC 1272/2008)</u>	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
<u>2.2. Label elements</u>	
Hazard Pictograms	Not Classified
<u>2.3. Other hazards</u>	
This product does not contain any substances classified as PBT or vPvB.	

SECTION 3: Composition/information on ingredients**3.1. Mixtures**

Isopropyl Alcohol	1-5%
CAS number: 67-63-0 EC number: 200-661-7 REACH registration number: 01- 2119457553-25	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R67
2-Butoxyethanol	1-5%
CAS number: 111-76-2 EC number: 203-905-0	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures	
Inhalation	Get medical attention if any discomfort continues.
Ingestion	Remove affected person from source of contamination. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
4.2. Most important symptoms and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
-------------------------------------	---

5.2. Special hazards arising from the substance or mixture

Specific hazards	The product is non-combustible. Irritating gases or vapours. Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon. Nitrogen. No unusual fire or explosion hazards noted.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Use air-supplied respirator, gloves and protective goggles. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Avoid contact with skin and eyes. For personal protection, see Section 8.
-----------------------------	---

6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. To prevent release, place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
----------------------------------	--

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. Dike far ahead of larger spills for later disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery.
--------------------------------	--

6.4. Reference to other sections

Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
------------------------------------	--

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Usage precautions	Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.
--------------------------	---

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep only in the original container. Store in a cool and well-ventilated place.
Storage class	Chemical storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
----------------------------	---

SECTION 8: Exposure controls/Personal protection**8.1. Control parameters Occupational exposure limits**

Isopropyl Alcohol	Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m ³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m ³
2-Butoxyethanol	Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 123 mg/m ³ (Sk) Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 246 mg/m ³ (Sk) WEL = Workplace Exposure Limit
Ingredient comments	WEL = Workplace Exposure Limits

2-Butoxyethanol (CAS: 111-76-2)

DNEL	Consumer - Oral; Long term systemic effects: 3.2 mg/kg/day Worker Inhalation Long Term Systemic Effects 98 mg/m ³ Consumer - Dermal; Short term systemic effects: 44.5 mg/kg/day Industry - Dermal; Short term systemic effects: 89 mg/kg/day Consumer - Dermal; Long term systemic effects: 38 mg/kg/day Industry - Dermal; Long term systemic effects: 75 mg/kg/day Consumer - Inhalation; Short term local effects: 123 mg/m ³ Consumer - Inhalation; Short term systemic effects: 426 mg/m ³ Industry - Inhalation; Short term systemic effects: 246 mg/m ³ Consumer - Inhalation; Long term systemic effects: 49 mg/m ³
PNEC	Fresh water; 8.8 mg/l Sediment (Freshwater); 34.6 mg/kg Sediment (Marinewater); 3.46 mg/kg Marine water; 0.88 mg/l STP; 463 mg/l Soil; 2.8 mg/kg

8.2. Exposure controls	
Protective equipment	
Eye/face protection	Any person visiting an area where this product is handled or processed should at least wear safety glasses with side shields.
Hand protection	It is recommended that gloves are made of the following material: Nitrile rubber. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Provide eyewash station.
Hygiene measures	Based on and limited to our experience of this product, the following special advice is believed to provide satisfactory protection for the industrial user or handler. The choice of suitable protective equipment depends on work conditions and what methods are used for handling the substance. This advice is not a substitute for each Company conducting their own Risk/COSHH Assessments, but is provided as general guidance. Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use barrier cream to prevent drying of skin. Eating, smoking and water fountains prohibited in immediate work area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance	Clear Liquid
Colour	Blue
Odour	Alcohol
Flash point	> 35°C
Other flammability	Does not support combustion according to UN MTC Test L.2 (32.5.2)
Relative density	~ 1
Solubility(ies)	Soluble in water.
9.1. Other information	
Other information	No relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	May react with: strong acids, strong alkalis and oxidising agents.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. No particular stability concerns.
10.3. Possibility of hazardous reactions	
Stability	Not applicable. Will not polymerise.
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation. Avoid excessive heat for prolonged periods of time.
10.5. Incompatible materials	
Materials to avoid	Strong acids. Strong oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products	
Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information
--

11.1. Information on toxicological effects Acute toxicity - oral	
Notes (oral LC₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	12,413.1082423
Acute toxicity - dermal	
Notes (dermal LC₅₀)	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	27,308.83813307
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
ATE inhalation (dusts/mists mg/l)	37.23932473
General information	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
Inhalation	No significant hazard at normal ambient temperatures. Heating may generate the following products: Irritating gases or vapours.
Ingestion	May cause discomfort if swallowed.
Skin contact	May cause defatting of the skin but is not an irritant.
Eye contact	May cause temporary eye irritation.
Route of entry	Ingestion. Skin and/or eye contact
Medical symptoms	No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.
Medical considerations	Skin disorders and allergies.
Isopropyl Alcohol	
Toxicological effects	Acute toxicity: Oral LD50 5840 mg/kg (rat) Dermal LD50 >5000 mg/kg (rat) Dermal LD50 >2000 mg/kg (rabbit) Inhalative LC50 (6u) >10000 ppm (rabbit) Inhalative LC50/4 h >20mg/l (rat)
Skin contact	No irritant effect.
Eye contact	Irritating effect.
Route of entry	Inhalation Ingestion. Skin and/or eye contact
2-Butoxyethanol	
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	1,300.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.0
Species	Guinea pig
Acute toxicity – inhalation	
ATE inhalation (dusts/mists mg/l)	1.5
Skin contact	Irritant to skin and mucous membranes.
Eye contact	Strong irritant with the danger of severe eye injury.
Acute and chronic health hazards	Harmful Irritant
Route of entry	Skin and/or eye contact Ingestion. Inhalation

SECTION 12: Ecological information	
12.1. Toxicity Acute aquatic toxicity	
Toxicity	No relevant information available.
Acute toxicity - fish	Not determined.
Acute toxicity - aquatic invertebrates	Not determined.
Acute toxicity - aquatic plants	Not determined.
Acute toxicity – microorganisms	Not determined.
Acute terrestrial – microorganisms	Not determined.
Isopropyl Alcohol	
Toxicity	EC50 (48u) >100 mg/l (daphnia magna) EC50 (72u) >100mg/l (Scenedesmus subspicatus) EC50 (96u) >1000mg/l (Scenedesmus subspicatus) (OECD 201) LC50 (48u) >100mg/l (Leuciscus idus) LC50 (96u) >9640mg/l (Pimephales promelas) (OECD 203)
2-Butoxyethanol	
Toxicity	EC 50 (48 u) (static) 1550mg/l (daphnia magna) (water flea, immobilization) IC 50 >1000 mg/l (Bacteria) LC 50 (96 u) (static) 1474mg/l (Oncorhynchus mykiss) (rainbow trout) NOEC >100 mg/l (Zebra fish) (Danio rerio, semi-static test, 21 d) 100 mg/l (daphnia magna) (semi-static test, 21 d, reproduction)
12.2. Persistence and degradability	
Persistence and degradability	No supplementary information available. The surfactants contained in this preparation 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 manufacturer.
Isopropyl Alcohol	
Persistence and degradability	No further relevant information available.
2-Butoxyethanol	
Persistence and degradability	The product is easily biodegradable. Degree of elimination: OECD 301B 90.4% (I) (28d)
12.3. Bioaccumulative potential	
Bioaccumulative potential	No further relevant information available.
Isopropyl Alcohol	
Bioaccumulative potential	Not worth-mentioning accumulating in organisms BCF >70% (I)
2-Butoxyethanol	
Bioaccumulative potential	Not worth-mentioning accumulating in organisms : < 100 (I),
12.4. Mobility in soil	
Mobility	No further relevant information available.
Isopropyl Alcohol	
Mobility	No further relevant information available.
2-Butoxyethanol	
Adsorption/desorption coefficient	Water - Koc: 50-180 @ °C
12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	No additional information available.
Isopropyl Alcohol	
Results of PBT and vPvB assessment	Not applicable
2-Butoxyethanol	
Results of PBT and vPvB assessment	Not applicable

12.6. Other adverse effects	
Other adverse effects	No supplementary information available.
Isopropyl Alcohol	
Other adverse effects	Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.
2-Butoxyethanol	
Other adverse effects	Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
General information	The packaging must be empty (drop-free when inverted).
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Discharge of small quantities to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor. Packaging: Recover and reclaim or recycle. If practical.

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1. UN number	
Not applicable.	
14.2. UN proper shipping name	
Not applicable.	
14.3. Transport hazard class(es)	
No transport warning sign required.	
14.4. Packing group	
Not applicable.	
14.5. Environmental hazards	
Environmentally hazardous substance/marine pollutant No.	
14.6. Special precautions for user	
Not applicable.	
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.
EU legislation	Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.
15.2. Chemical safety assessment	
No chemical safety assessment has been carried out.	

SECTION 16: Other information

General information	PLEASE NOTE: The risk phrases itemised below are those relating to concentrated forms of the raw materials used in this product and are not necessarily applicable to the finished item. Please see Section 2 for the current classification of this product.
Risk phrases in full	R67 Vapours may cause drowsiness and dizziness.
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation
Revision comments	N/A
Revision date	01/10/20
Revision	1.0
Supersedes date	N/A
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. 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.

The information provided in this document is based on our present state of knowledge of the product and is given in good faith and to the best of our experience. However, it should not be construed as a technical specification or as guaranteeing specific properties, accuracy, reliability or completeness. In no event we will be responsible for damages or effects of any nature whatsoever, either express or implied, resulting from the use of this information. It is the own responsibility of the consignee and the user of the product to comply with all prevailing and applicable laws, regulations and directives. They should also make their own determination as to the suitability of the product for a particular use or application by carrying out a full risk assessment of their specific processes and systems of work. All information contained within this document is for the product in its undiluted state and relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated.