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MATERIAL SAFETY DATA SHEET  
**Mudbuster glass cleaner**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

This product is a concentrated blend containing Alcohols, nonionic surfactants and alkali builders.

**1.2 Relevant Identified uses of the substance or mixture and uses advised against**

Identified use(s) The Intended use is in automotive, industrial and Institutional cleaning of glass and windows.

Uses advised against: Please consult supplier prior to use for recommended dilution concentrations.

**1.3 Details of the supplier of the safety data sheet**

**Company Identification:**

Mudbuster Products Ltd  
Unit 1 116 Moneymore Road  
Magherafelt  
Co Londonderry  
BT45 6HJ  
Email: ryoung930@btinternet.com

**1.4 Emergency telephone number**

In an emergency dial 999 (UK Only) or 112 (EU)  
For specialist advice in an emergency telephone Magherafelt 028 79 301 516

**2. HAZARDS IDENTIFICATION**

Regulation (EC) No: 1272/2008 (CLP).

**2.2 Label elements Hazard statement:**

H226: Flammable liquid and vapour  
H315: Causes skin irritation  
H320: Causes eye irritation

Signal word(s)

DANGER



Hazard pictogram

**Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501a Dispose of contents/container to a registered waste disposal company

**Additional Label requirements**

None

**2.3 Other hazards**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Hazardous ingredients(s)	% (w/w)	CAS No:	H Codes	GHS Classification
2-aminoethanol	0.1 – 1.0	141-43-5	314	Skin Corr 1A, 1B,1C
Ethyl Alcohol	10.0 – 30.0	64-17-5	225, 302, 312, 319, 332, 371	Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT Single 1 - H370
Propan-2-ol	5.0 – 10.0	67-63-0	225, 319, 336	Flam. Liq. 2 Eye Irrit. 2

**4. FIRST AID MEASURES**

**INHALATION**

Remove patient from exposure, keep warm and at rest. Administer oxygen if necessary

**SKIN CONTACT**

Remove contaminated clothing. Drench with large quantities of water. Continue to wash the affected area for at least 10 minutes.

**EYE CONTACT**

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart for at least 15 minutes. Continue irrigation until medical attention can be obtained.

#### **INGESTION**

Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

#### **4.2 Most important symptoms and effects, both acute and delayed**

May Cause irritation to eyes and skin. May cause damage with formation of corneal ulcers and permanent impairment of vision. Mist is irritating to the respiratory tract. Effect may vary from irritation of the nasal mucous membrane to lung irritation.

#### **4.3 Indication of any immediate medical attention and special treatment needed:**

**Speed is essential. Obtain immediate medical attention.** Showers and eye washing equipment must be provided at handling points. Remove contaminated clothing and wash all affected areas with plenty of water. Symptomatic treatment and supportive therapy as indicated.

### **5. FIRE FIGHTING MEASURES**

**Extinguishing Media :** Foam, CO2 or dry powder  
**Suitable extinguishing media**As appropriate for surrounding fire

#### **5.2 Special Hazards arising from the substance or mixture**

Flammable vapour or mist

#### **5.3 Advice for fire fighters**

A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure suitable personal protection during removal of spillages.

#### **6.2 Environmental precautions**

Avoid release to the environment. Prevent liquid entering sewers, basements and any watercourses.

#### **6.3 Methods and material for containment and cleaning up**

Stop leak if safe to do so. Contain spillages.

Small spillages: Neutralise wherever possible. Wash the spillage area with water.

Large spillages: Contain spillages with sand, earth or any suitable adsorbent material. Remove and dispose of residues.

Wash the spillage area with water. Water washing to drain of large amounts of caustic soda should only be carried out with the prior consent of the Environment Agency or other appropriate regulatory body.

Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor.

#### **6.4 Reference to other sections**

See Section: 8, 13

### **6.5 Additional information**

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes.  
Do not spray. Avoid generation of aerosols or mist.  
Prevent spillages as will render floors slippery

### **7.2 Conditions for safe storage, including any incompatibilities**

For small quantities - Keep container tightly closed.

### **7.3 Specific end use(s)**

Not applicable

## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

### **8.1 Control Parameters**

Components;

Name	STD	TWA - 8 Hrs		STEL - 15 Min	
Ethyl Alcohol	WEL	1000ppm	1920 mg/m <sup>3</sup>	-	-
Propan-2-ol	WEL	400ppm	999 mg/m <sup>3</sup>	500ppm	1250mg/cm <sup>3</sup>
2-aminoethanol	WEL	1ppm	2.5 mg/m <sup>3</sup>	3 ppm	7.6mg/cm <sup>3</sup>

### **8.2 Exposure controls**

Appropriate engineering controls  
Provide adequate ventilation, including appropriate local extraction, if fumes or vapours are likely to be evolved.

#### **Personal Protection**

Eye/face protection Wear close fitting goggles.

#### **Skin protection**

Wear suitable protective clothing and gloves.  
Suitable Materials: PVC, Neoprene, natural rubber  
Unsuitable gloves materials: Leather  
Leather footwear is not suitable.  
Check with protective equipment manufacturer's data.

#### **Respiratory protection**

Not deemed as necessary when used in line with manufacturers guide lines for use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form	Clear liquid.
Colour	Characteristic
Solubility (water)	Complete
Density gcm <sup>-3</sup> (@20degC	0.92
pH	10.0

### 9.2 Other information

Refer to technical brochure.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Product is stable under normal usage conditions

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

May decompose catalytically if in contact with acids and chlorinated hydrocarbons.

### 10.4 Conditions to avoid

None identified under normal conditions of use.

### 10.5 Incompatible materials

Keep away from: Acids, ammonia solution, chlorinated hydrocarbons

### 10.6 Hazardous Decomposition Product(s)

Carbon Dioxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### *Test result / data*

#### **Acute oral toxicity**

Will cause irritation of and damage to the gastrointestinal tract.

#### **Acute inhalation toxicity**

Mist is irritating to the respiratory tract. Effect may vary from irritation of the nasal mucous membrane to severe lung irritation.

#### **Acute dermal toxicity**

May cause severe irritation to skin with prolonged exposure, which may be slow to heal. Repeated or prolonged contact to dilute solutions may cause dermatitis.

#### **Skin irritation.**

May Cause skin irritation with prolonged exposure.

<b>Serious eye damage/irritation</b>	May cause eye damage with misuse.. May cause damage with formation of corneal ulcers and permanent impairment of vision.
<b>Respiratory irritation</b>	Mist is irritating to the respiratory tract. Effect may vary from irritation of the nasal mucous membrane to severe lung irritation.
<b>Sensitisation</b>	Respiratory system: No data. There is no evidence of skin sensitisation in humans.
<b>Repeated dose toxicity</b>	No reliable data available.
<b>Germ cell mutagenicity</b>	There is no evidence of mutagenic potential. The material did not induce mutagenicity in in-vitro or in-vivo studies.
<b>Carcinogenicity</b>	Is irritating to the skin and respiratory tract and will not be systemically available in the body under normal conditions of handling and use. As a consequence it is not expected to cause cancer in any organ.
<b>Reproductive toxicity</b>	Will not be systemically available in the body under normal conditions of handling and use and will not be toxic to the reproductive system or the developing foetus.
<b>Specific target organ toxicity – single exposure (STOT SE)</b>	Not classified
<b>Specific target organ toxicity – repeated exposure (STOT RE)</b>	Not classified
<b>Aspiration hazard</b>	Not an aspiration hazard
<b>Other effects</b>	None

## 12. ECOLOGICAL INFORMATION

### **12.1 Toxicity**

No reliable data available. Concentrations greater than 100ppm, especially in fresh water, or a pH value equal to or greater than 10.5 may be fatal to fish and other aquatic organisms. Can cause damage to aquatic plants. Can cause damage to vegetation.

### **12.2 Persistence and degradability**

Highly soluble in water and has a low vapour pressure. It will be found predominantly in the aquatic environment. It degrades readily by reaction with the natural carbon dioxide in the air.

### **12.3 Bioaccumulative potential**

Does not bioaccumulate.

### **12.4 Mobility in soil**

Becomes increasingly more mobile in soil with dilution.

### **12.5 Results of PBT and vPvB assessment**

N.A.

### **12.6 Other adverse effects**

Concentrations sufficient to render effluent alkaline may cause damage to effluent treatment organisms.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation.

Do not empty into drains; dispose of this material and its container in a safe way.

Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor.

### 13.2 Additional information

Sludge waste containing mercury (see Storage) will require to be disposed of in an authorised treatment facility licensed under the Environmental Protection Act (EPA).

## 14. TRANSPORT INFORMATION

### UN number

UN No. (ADR/RID/ADN)	1170
UN No. (IMDG)	1170
UN No. (ICAO)	1170

### UN Proper shipping name

Proper Shipping Name ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

### Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3

### Transport labels

#### None Specified

Packing group	
ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

### Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant  
No.

### Special precautions for user

EMS	F-E, S-D
Emergency Action Code	•2YE
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Cat Z

## 15. REGULATORY INFORMATION

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

Control of Substances Hazardous to Health Regulations (COSHH) 2002 SI 2002/2677 and COSHH Essentials:  
Easy steps to control chemicals - Control of Substances Hazardous to Health Regulations HSG193.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment (CSA) has not been completed for this substance

This surfactant system complies with the biodegradation criteria as laid down in regulation (EC) No648/2004 on detergents.

## 16. OTHER INFORMATION

**Indication of changes** See Section: 8.1, 14.4

### LEGEND

**WEL** : Workplace Exposure Limit (UK HSE EH40)

**COM** : The company aims to control exposure in its workplace to this limit

**TLV** : The company aims to control exposure in its workplace to the ACGIH limit

**TLV-C**: The company aims to control exposure in its workplace to the ACGIH Ceiling limit

**MAK** : The company aims to control exposure in its workplace to the German limit

**Sk** : Can be absorbed through skin

**Sen** : Capable of causing respiratory sensitisation

**Bmgv** : Biological monitoring guidance value (UK HSE EH40)

**ILV** : Indicative Limit Value (UK HSE EH40)

**IOELV**: Indicative Occupational Exposure Limit Value

**PBT** Persistent, Bioaccumulative and Toxic

**vPvB** very Persistent very Bioaccumulative

Legal disclaimer: The information provided is based on our current knowledge, and does not comprise technical or performance specification for this product. It does not purport to be all-inclusive, and is intended solely as a general guide to the health, safety and environmental implications of this product for handling and disposal during general use. It does not replace the users own assessment of suitability for their purposes and of workplace risk as required by Health and Safety legislation. Accordingly, due to the diverse applications for this product, Mudbuster Products cannot accept liability for damage of any nature, resulting from the use of this product.