

# SAFETY DATA SHEET

## Glass & Mirror Cleaner

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

#### 1.1. Product identifier

Product name                      AE10 Glass & Mirror Cleaner

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

Identified uses                      Glass cleaner.

#### 1.3. Details of the supplier of the safety data sheet

Supplier                      W R Day Ltd  
6 Manor Ind Est  
Taunton TA1 4EF, UK  
T+44 (0) 1823 276506

[mailbox@autoday.com](mailto:mailbox@autoday.com)

#### 1.4. Emergency telephone number

Emergency telephone              +44 (0) 1823 276506

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards                      Aerosol 1 - H222, H229

Health hazards                      Not Classified

Environmental hazards              Not Classified

Classification (67/548/EEC or 1999/45/EC)      F+;R12.

Human health                      Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

Environmental                      The product is not expected to be hazardous to the environment.

Physicochemical                      Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

#### 2.2. Label elements

##### Pictogram



Signal word                      Danger

Hazard statements                      H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

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Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with local regulations. P260 Do not breathe vapour/spray. P271 Use only outdoors or in a well-ventilated area.
Detergent labelling	< 5% aliphatic hydrocarbons, < 5% perfumes

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

2-BUTOXYETHANOL			1-5%
CAS number: 111-76-2	EC number: 203-905-0	REACH registration number: 01-2119475108-36	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Acute Tox. 4 - H302	Xn;R20/21/22 Xi;R36/38		
Acute Tox. 4 - H312			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS			1-5%
CAS number: 68476-85-7	EC number: 270-704-2		
Classification	Classification (67/548/EEC or 1999/45/EC)		
Flam. Gas 1 - H220	F+;R12 Carc. Cat. 1;R45 Muta. Cat. 2;R46		
Press. Gas, Liquefied - H280			
PROPAN-2-OL			1-5%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Flam. Liq. 2 - H225	F;R11 Xi;R36 R67		
Eye Irrit. 2 - H319			
STOT SE 3 - H336			

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SODIUM NITRITE <span style="float: right;">&lt;1%</span>		
CAS number: 7632-00-0	EC number: 231-555-9	REACH registration number: 01-2119471836-27
M factor (Acute) = 1		
Classification Ox. Sol. 3 - H272 Acute Tox. 3 - H301 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) O;R8 T;R25 N;R50	
Hydrocarbons C11-C13 Isoalkanes, <2% aromatics <span style="float: right;">&lt;1%</span>		
CAS number: 90622-58-5	EC number: 920-901-0	REACH registration number: 01-2119456810-40
Classification Asp. Tox. 1 - H304	Classification (67/548/EEC or 1999/45/EC) Xn;R65. R66.	

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

General information	Move affected person to fresh air at once.
Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Rinse immediately with plenty of water. 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.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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#### 5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Extremely flammable. Forms explosive mixtures with air.
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#### 5.3. Advice for firefighters

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Protective actions during firefighting      Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Warn firefighters that aerosols are involved. Use water to keep fire exposed containers cool and disperse vapours.

### SECTION 6: Accidental release measures

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

Personal precautions      Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.

#### 6.2. Environmental precautions

Environmental precautions      Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

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

Methods for cleaning up      Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb spillage with non-combustible, absorbent material.

#### 6.4. Reference to other sections

Reference to other sections      For personal protection, see Section 8. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions      Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Do not spray on a naked flame or any incandescent material. Eliminate all sources of ignition.

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

Storage precautions      Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Extremely flammable.

#### 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

##### 2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 50 ppm(Sk)

##### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

##### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### SODIUM NITRITE

Long-term exposure limit (8-hour TWA): No std.

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Hydrocarbons C11-C13 Isoalkanes, <2% aromatics

Long-term exposure limit (8-hour TWA): SUP 177 ppm 1200 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

### PROPAN-2-OL (CAS: 67-63-0)

DNEL	Industry - Dermal; Long term systemic effects: 888 mg/kg/day Industry - Inhalation; Long term systemic effects: 500 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Dermal; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m <sup>3</sup>
PNEC	- Fresh water; 140.9 mg/l - Marine water; 140.9 mg/l - Intermittent release; 140.9 mg/l - Sediment (Freshwater); 552 mg/kg - Sediment (Marinewater); 552 mg/kg - STP; 2251 mg/l - Soil; 28 mg/kg

### 8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Do not eat, drink or smoke when using this product.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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.

Hygiene measures

Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Clear.
Odour	Characteristic.
Initial boiling point and range	-40 to -2°C @ 1013 hPa
Flash point	< -40°C
Upper/lower flammability or explosive limits	Lower : 1.8% - Upper 9.5%
Vapour pressure	ca. 590 to 1760 kPa @ 45°C

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Vapour density	ca. 1.5 at 15°C
Partition coefficient	log Pow: ca. 2.3 to 2.8
Auto-ignition temperature	410-580°C
Comments	Information given is applicable to the major ingredient.

### 9.2. Other information

Other information	Not available.
Volatile organic compound	This product contains a maximum VOC content of 105 g/l.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.
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### 10.2. Chemical stability

Stability	Avoid the following conditions: Heat, sparks, flames.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Does not decompose when used and stored as recommended.
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### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
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### 10.5. Incompatible materials

Materials to avoid	Keep away from oxidising materials, heat and flames.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

ATE oral (mg/kg)	9,259.26
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#### Acute toxicity - dermal

ATE dermal (mg/kg)	22,448.98
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General information	Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
Inhalation	In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.
Skin contact	Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.

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Acute and chronic health hazards	Arrhythmia (deviation from normal heart beat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Route of entry	Inhalation
Target organs	Central nervous system Respiratory system, lungs
Medical symptoms	Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

### SECTION 12: Ecological Information

Ecotoxicity No negative effects on the aquatic environment are known. Not regarded as dangerous for the environment.

#### 12.1. Toxicity

Toxicity Not available.

#### 12.2. Persistence and degradability

Persistence and degradability Not available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

Partition coefficient log Pow: ca. 2.3 to 2.8

#### 12.4. Mobility in soil

Mobility Not known.

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

Results of PBT and vPvB assessment Not available.

#### 12.6. Other adverse effects

Other adverse effects Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

### SECTION 14: Transport information

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

#### 14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

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UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name AEROSOLS

Proper shipping name  
(ADR/RID)

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels



14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ADN packing group None

ICAO packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

### SECTION 15: Regulatory information

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



## Glass & Mirror Cleaner

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010.
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision comments	Supplemental information added.
Revision date	06/04/2016
Revision	3
SDS number	10677
SDS status	Approved.
Risk phrases in full	R11 Highly flammable. R12 Extremely flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R25 Toxic if swallowed. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R50 Very toxic to aquatic organisms. R67 Vapours may cause drowsiness and dizziness. R8 Contact with combustible material may cause fire.
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H272 May intensify fire; oxidiser. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.

This information 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. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.