



## SAFETY DATA SHEET

### Armor All® Glass Cleaner

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

##### 1.1. Product identifier

**Product name**                      Armor All® Glass Cleaner  
**Product number**                 32500

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

**Identified uses**                    Glass cleaner.  
**Uses advised against**            No specific uses advised against are identified.

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

**Supplier**                             Armored Auto UK Ltd  
     Unit 16, Rassau Industrial Estate  
     Ebbw Vale  
     Gwent NP23 5SD  
     UK  
     Tel: +44 1495 350234  
     Fax: + 44 1495 350431  
     euregulatory@eu.spectrumbrands.com

##### 1.4. Emergency telephone number

**Emergency telephone**            +44 1495 350234  
     Monday - Thursday: 0830 - 1700  
     Friday: 0830 - 1530

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

**Physical hazards**                    Not Classified  
**Health hazards**                    Not Classified  
**Environmental hazards**         Not Classified

##### 2.2. Label elements

**Hazard statements**                NC Not Classified  
**Precautionary statements**     P102 Keep out of reach of children.  
**Detergent labelling**              < 5% anionic surfactants

##### 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

## Armor All® Glass Cleaner

<b>3-butoxypropan-2-ol</b>		<b>2.5 - &lt;5%</b>
CAS number: 5131-66-8	EC number: 225-878-4	REACH registration number: 01-2119475527-28-XXXX
<b>Classification</b>		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
<b>propan-2-ol</b>		<b>1 - &lt;2.5%</b>
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		
STOT SE 3 - H336		

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

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Inhalation</b>	If throat irritation or coughing persists, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist.
<b>Skin contact</b>	Remove contaminated clothing and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Drowsiness. Dizziness.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause irritation.

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

<b>Notes for the doctor</b>	Treat symptomatically. Keep affected person under observation.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

## Armor All® Glass Cleaner

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**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

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Use water to keep fire exposed containers cool and disperse vapours.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all ignition sources if safe to do so. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Eliminate all ignition sources if safe to do so. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Use only non-sparking tools. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### 6.4. Reference to other sections

**Reference to other sections** See Section 11 for additional information on health hazards. 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. Wear protective clothing as described in Section 8 of this safety data sheet. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Keep away from heat, sparks and open flame. Provide adequate ventilation.

**Advice on general occupational hygiene** Avoid contact with eyes and prolonged skin contact. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.

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

**Storage precautions** Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.

### 7.3. Specific end use(s)

## Armor All® Glass Cleaner

**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

##### 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>

WEL = Workplace Exposure Limit

##### propan-2-ol (CAS: 67-63-0)

##### **DNEL**

Workers - Inhalation; Long term systemic effects: 500 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 888 mg/kg/day

General population - Inhalation; Long term systemic effects: 89 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 319 mg/kg/day

General population - Oral; Long term systemic effects: 26 mg/kg/day

##### **PNEC**

- Fresh water; 140.9 mg/l

- Marine water; 140.9 mg/l

- STP; 2251 mg/l

- Sediment (Freshwater); 552 mg/kg

- Sediment (Marinewater); 552 mg/kg

- Soil; 28 mg/kg

- Oral; 160 mg/kg

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. All handling should only take place in well-ventilated areas. Avoid inhalation of vapours and spray/mists. Use explosion-proof electrical, ventilating and lighting equipment.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield.

##### Hand protection

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. Frequent changes are recommended.

##### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

##### Hygiene measures

Do not smoke in work area. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

##### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

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**Environmental exposure controls**      Keep container tightly sealed when not in use.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (concentrated solution): ≤ 11
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not relevant.
<b>Upper/lower flammability or explosive limits</b>	Not relevant.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	0.985 - 1
<b>Bulk density</b>	Not determined.
<b>Solubility(ies)</b>	Miscible with water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not relevant.
<b>Decomposition Temperature</b>	Not relevant.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

#### 9.2. Other information

**Other information**      No information required.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**      There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability**      Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

## Armor All® Glass Cleaner

**Possibility of hazardous reactions** Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (dusts/mists mg/l)** 210.53

#### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

#### Aspiration hazard

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**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

### Toxicological information on ingredients.

#### 3-butoxypropan-2-ol

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,300.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information.

**ATE oral (mg/kg)** 3,300.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,001.0

**Species** Rat

**Notes (dermal LD<sub>50</sub>)** REACH dossier information.

**ATE dermal (mg/kg)** 2,001.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 650.0

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** REACH dossier information.

**ATE inhalation (vapours mg/l)** 650.0

##### Skin corrosion/irritation

**Animal data** Dose: 0.5 ml (75%), 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). REACH dossier information. Irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Irritating.

##### Skin sensitisation

**Skin sensitisation** Buehler test - Guinea pig: Not sensitising. REACH dossier information.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. REACH dossier information.

##### Carcinogenicity

**Carcinogenicity** NOEL 300 ppm, Inhalation, Rat REACH dossier information. Read-across data.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOEL 1000 ppm, Inhalation, Rat F1 REACH dossier information. Read-across data.

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**Reproductive toxicity - development**      Developmental toxicity: - NOAEL: 880 mg/kg/day, Dermal, Rat REACH dossier information.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**      NOAEL 350 mg/kg/day, Oral, Rat REACH dossier information.

### propan-2-ol

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)**      5,840.0

**Species**      Rat

**Notes (oral LD<sub>50</sub>)**      REACH dossier information.

**ATE oral (mg/kg)**      5,840.0

**Skin corrosion/irritation**

**Animal data**      Primary dermal irritation index: 0/4 Erythema/eschar score: Oedema score: REACH dossier information.

**Serious eye damage/irritation**

**Serious eye damage/irritation**      Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Irritating.

**Skin sensitisation**

**Skin sensitisation**      Buehler test - Guinea pig: Not sensitising. REACH dossier information.

**Germ cell mutagenicity**

**Genotoxicity - in vitro**      Gene mutation: Negative. REACH dossier information.

**Genotoxicity - in vivo**      Chromosome aberration: Negative. REACH dossier information.

**Carcinogenicity**

**Carcinogenicity**      NOEL 5000 ppm, Inhalation, Rat REACH dossier information.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**      STOT SE 3 - H336 May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**      NOAEC 5000 ppm, Inhalation, Rat REACH dossier information.

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity**      Not considered toxic to fish. However, large or frequent spills may have hazardous effects on the environment.

### Ecological information on ingredients.

#### 3-butoxypropan-2-ol

**Acute toxicity - fish**      LC<sub>50</sub>, 96 hours: 560-1000 mg/l, Poecilia reticulata (Guppy) REACH dossier information.

**Acute toxicity - aquatic invertebrates**      EC<sub>50</sub>, 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information.

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**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: > 1000 mg/l, Selenastrum capricornutum  
REACH dossier information.

**Acute toxicity - microorganisms** EC<sub>50</sub>, 3 hours: > 1000 mg/l, Activated sludge  
REACH dossier information.

### propan-2-ol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 24 hours: > 10000 mg/l, Daphnia magna  
REACH dossier information.

### 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) contained in this product complies(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.

### Ecological information on ingredients.

#### 3-butoxypropan-2-ol

**Biodegradation** Water - Degradation (90%): 28 days  
REACH dossier information.  
The substance is readily biodegradable.

#### propan-2-ol

**Biodegradation** Water - Degradation (53%): 5 days  
REACH dossier information.

**Biological oxygen demand** 1.19 - 1.72 g O<sub>2</sub>/g substance REACH dossier information.

**Chemical oxygen demand** 2.23 g O<sub>2</sub>/g substance REACH dossier information.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

#### 3-butoxypropan-2-ol

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** log Pow: 1.2 REACH dossier information.

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### Ecological information on ingredients.

#### 3-butoxypropan-2-ol

**Surface tension** 27.6 mN/m @ 20°C/68°F REACH dossier information.

### 12.5. Results of PBT and vPvB assessment

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**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

## 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** 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

**National regulations** EH40/2005 Workplace exposure limits.

**EU legislation** 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).  
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).  
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).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.

### 15.2. Chemical safety assessment

## Armor All® Glass Cleaner

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>IATA: International Air Transport Association.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>DNEL: Derived No Effect Level.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>BCF: Bioconcentration Factor.</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Not classified.: Calculation method.
<b>Revision comments</b>	Document revised.
<b>Revision date</b>	18/04/2017
<b>Revision</b>	11
<b>Supersedes date</b>	01/04/2014
<b>SDS number</b>	193
<b>Hazard statements in full</b>	<p>H225 Highly flammable liquid and vapour.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p>

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