



## SAFETY DATA SHEET

### Armor All® Shield Wheel Cleaner 500ml

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® Shield Wheel Cleaner 500ml  
**Product number** AA19500

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

**Identified uses** Automotive wheel 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** Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



**Signal word** Warning

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<b>Hazard statements</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
<b>Precautionary statements</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P261 Avoid breathing vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	sodium mercaptoacetate, Sulfonic acids, C14-17-sec-alkane, sodium salts
<b>Detergent labelling</b>	5 - < 15% anionic surfactants
<b>Supplementary precautionary statements</b>	P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

### 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

<b>sodium mercaptoacetate</b>	<b>10 - &lt;25%</b>
CAS number: 367-51-1	EC number: 206-696-4
<b>Classification</b>	
Met. Corr. 1 - H290	
Acute Tox. 3 - H301	
Acute Tox. 4 - H312	
Skin Sens. 1 - H317	
<b>Sulfonic acids, C14-17-sec-alkane, sodium salts</b>	<b>5 - &lt;10%</b>
CAS number: 97489-15-1	EC number: 307-055-2
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	

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<b>Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts</b> CAS number: 68439-57-6                      EC number: 931-534-0	<b>2.5 - &lt;5%</b>
<b>Classification</b> 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

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if irritation persists after washing.

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

<b>Inhalation</b>	Vapours may cause drowsiness and dizziness.
<b>Ingestion</b>	May cause discomfort if swallowed. Harmful if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation. May cause sensitisation or allergic reactions in sensitive individuals.
<b>Eye contact</b>	Pain or irritation. May cause discomfort. Redness.

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

<b>Notes for the doctor</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.
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#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Use protective equipment appropriate for surrounding materials.
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### SECTION 6: Accidental release measures

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

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**Personal precautions**      Wear protective clothing as described in Section 8 of this safety data sheet.

### 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**      Absorb in vermiculite, dry sand or earth and place into containers. 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.

**Advice on general occupational hygiene**      Avoid contact with eyes and prolonged skin contact.

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

**Storage precautions**      Store in a cool and well-ventilated place.

### 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

**Ingredient comments**      No exposure limits known for ingredient(s).

### 8.2. Exposure controls

**Eye/face protection**      Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

**Hand protection**      No specific hand protection recommended. 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**      No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

## SECTION 9: Physical and Chemical Properties

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

**Appearance**      Liquid.

**Colour**      Colourless.

**Odour**      Pungent.

**Odour threshold**      Not determined.

**pH**      pH (concentrated solution): 6 - 8

**Melting point**      Not determined.

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<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 determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Bulk density</b>	Not determined.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<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

**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. Heating may generate the following products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Harmful if swallowed.

**ATE oral (mg/kg)** 884.96

#### Acute toxicity - dermal

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

**ATE dermal (mg/kg)** 5,789.47

#### Acute toxicity - inhalation

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

#### Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

#### 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

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

#### sodium mercaptoacetate

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 200.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Converted acute toxicity point estimate (cATpE) Acute Tox. 4 - H302 Harmful if swallowed.

**ATE oral (mg/kg)** 200.0

##### Acute toxicity - dermal

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<b>Notes (dermal LD<sub>50</sub>)</b>	Converted acute toxicity point estimate (cATpE) Acute Tox. 4 - H312 Harmful in contact with skin.
<b>ATE dermal (mg/kg)</b>	1,100.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 500 mg, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. REACH dossier information.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Dose level: 1.0 / 2.0 %, Dermal, Mouse REACH dossier information.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Screening - NOAEL ≥ 80 mg/kg/day, Oral, Rat P REACH dossier information.
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: ≥ 100 mg/kg/day, Dermal, Rat REACH dossier information.
<b><u>Sulfonic acids, C14-17-sec-alkane, sodium salts</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	500.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	REACH dossier information.
<b>ATE oral (mg/kg)</b>	500.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> : >2000 mg/kg, Dermal, Mouse REACH dossier information.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Fully reversible within 14 days. Oedema score: Slight oedema - edges of area well defined by definite raising (2). Fully reversible within 14 days. REACH dossier information. Irritating to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. REACH dossier information.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information.

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### Carcinogenicity

**Carcinogenicity** NOEC 20000 ppm, Oral, Rat REACH dossier information.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 3000 - 10000 ppm, Oral, Rat F1a, F2b REACH dossier information.

**Reproductive toxicity - development** Teratogenicity: - NOEL: ≥ 10000 ppm, Oral, Rat REACH dossier information.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 40000 ppm, Oral, Rat REACH dossier information.

### Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

#### Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### sodium mercaptoacetate

**Acute toxicity - fish** NOEC, 96 hours: 100 mg/l, Onchorhynchus mykiss (Rainbow trout)  
LC<sub>50</sub>, 96 hours: > 100 mg/l, Onchorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 38 mg/l, Daphnia magna  
REACH dossier information.

#### Sulfonic acids, C14-17-sec-alkane, sodium salts

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 5.5 mg/l, Leuciscus idus (Golden orfe)  
NOEC, 96 hours: 7.1 mg/l, Leuciscus idus (Golden orfe)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 9.2 mg/l, Daphnia magna  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>10</sub>, 72 hours: 60 mg/l, Scenedesmus subspicatus  
EC<sub>50</sub>, 72 hours: 119.4 mg/l, Scenedesmus subspicatus  
NOEC, 72 hours: 20.1 mg/l, Scenedesmus subspicatus  
REACH dossier information.

**Acute toxicity - microorganisms** NOEC, 16 hours: 600 mg/l, Pseudomonas putida  
REACH dossier information.

**Chronic toxicity - fish early life stage** NOEC, 28 days: 0.85 mg/l, Onchorhynchus mykiss (Rainbow trout)  
REACH dossier information.



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**Chronic toxicity - aquatic invertebrates**      NOEC, 22 days: 0.36 mg/l, Daphnia magna  
 LOEC, 22 days: 3.2 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.

#### Sulfonic acids, C14-17-sec-alkane, sodium salts

**Biodegradation**                      Water - Degradation (78%): 28 days  
 REACH dossier information.  
 The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

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

**Partition coefficient**                Not determined.

#### sodium mercaptoacetate

**Partition coefficient**                log Pow: -2.99 REACH dossier information.

#### Sulfonic acids, C14-17-sec-alkane, sodium salts

**Partition coefficient**                log Pow: 0.2 REACH dossier information.

### 12.4. Mobility in soil

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

#### Sulfonic acids, C14-17-sec-alkane, sodium salts

**Surface tension**                      34 mN/m @ 20°C REACH dossier information.

### 12.5. Results of PBT and vPvB assessment

**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.

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### 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

<b>National regulations</b>	EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	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

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317: Calculation method.
<b>Revision comments</b>	Revised formulation. Revised classification.
<b>Revision date</b>	01/06/2016
<b>Revision</b>	1
<b>Supersedes date</b>	04/02/2015
<b>SDS number</b>	650

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<b>Hazard statements in full</b>	H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
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