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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Hazard statements	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary statements	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.
Contains	sodium mercaptoacetate, Sulfonic acids, C14-17-sec-alkane, sodium salts
Detergent labelling	5 - < 15% anionic surfactants
Supplementary precautionary statements	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

sodium mercaptoacetate **10 - <25%**

CAS number: 367-51-1 EC number: 206-696-4

Classification
Met. Corr. 1 - H290
Acute Tox. 3 - H301
Acute Tox. 4 - H312
Skin Sens. 1 - H317

Sulfonic acids, C14-17-sec-alkane, sodium salts **5 - <10%**

CAS number: 97489-15-1 EC number: 307-055-2

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

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Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	**2.5 - <5%**
CAS number: 68439-57-6 EC number: 931-534-0	
Classification 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 Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion 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.

Skin contact Wash skin thoroughly 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. Get medical attention if irritation persists after washing.

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

Inhalation Vapours may cause drowsiness and dizziness.

Ingestion May cause discomfort if swallowed. Harmful if swallowed.

Skin contact Prolonged skin contact may cause redness and irritation. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Pain or irritation. May cause discomfort. Redness.

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

Notes for the doctor The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

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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Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	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_2). Carbon monoxide (CO).

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50})	Harmful if swallowed.
ATE oral (mg/kg)	884.96

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	5,789.47

Acute toxicity - inhalation

Notes (inhalation LC_{50})	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_{50} mg/kg)	200.0
Species	Rat
Notes (oral LD_{50})	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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Notes (dermal LD_{50})	Converted acute toxicity point estimate (cATpE) Acute Tox. 4 - H312 Harmful in contact with skin.
ATE dermal (mg/kg)	1,100.0
Skin corrosion/irritation	
Animal data	Dose: 500 mg, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
Carcinogenicity	
Carcinogenicity	Dose level: 1.0 / 2.0 %, Dermal, Mouse REACH dossier information.
Reproductive toxicity	
Reproductive toxicity - fertility	Screening - NOAEL ≥ 80 mg/kg/day, Oral, Rat P REACH dossier information.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: ≥ 100 mg/kg/day, Dermal, Rat REACH dossier information.

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

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	500.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information.
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} : >2000 mg/kg, Dermal, Mouse REACH dossier information.
Skin corrosion/irritation	
Animal data	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.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitisation	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	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_{50}, 96 hours: > 100 mg/l, Onchorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 38 mg/l, Daphnia magna
REACH dossier information.

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

Acute toxicity - fish LC_{50}, 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_{50}, 48 hours: 9.2 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC_{10}, 72 hours: 60 mg/l, Scenedesmus subspicatus
EC_{50}, 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 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	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

No chemical safety assessment has been carried out.

SECTION 16: Other information

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

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Hazard statements in full

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.