



## SAFETY DATA SHEET

### Armor All® Shield +Ceramic Car Wash

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended).

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

##### 1.1. Product identifier

**Product name** Armor All® Shield +Ceramic Car Wash  
**Product number** 90520

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

**Identified uses** Automotive car wash.  
**Uses advised against** No specific uses advised against are identified.

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

**Supplier** Energizer Trading Ltd  
 Sword House  
 Totteridge Road  
 High Wycombe  
 HP13 6DG  
 UK  
 Tel: +44 845 602 1995  
 euregulatory@energizer.com

##### 1.4. Emergency telephone number

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

**National emergency telephone number** Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

#### SECTION 2: Hazards identification

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

###### Classification (SI 2019 No. 720)

**Physical hazards** Not Classified  
**Health hazards** Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Danger  
**Hazard statements** H318 Causes serious eye damage.

## Armor All® Shield +Ceramic Car Wash

|                                 |  |
|---------------------------------|--|
| <b>Precautionary statements</b> | P102 Keep out of reach of children.<br>P280 Wear eye and face protection.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER/ doctor. |
| <b>Contains</b>                 | Alcohols, C9-11, ethoxylated, 2,6,8-Trimethyl-4-nonylpolyethylene glycolether  |
| <b>Detergent labelling</b>      | 15 - < 30% non-ionic surfactants, < 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

|  |                          |
|--|--------------------------|
| <b>Alcohols, C9-11, ethoxylated</b>  | <b>5 - &lt;10%</b>       |
| CAS number: 68439-46-3   |                          |
| <b>Classification</b>  |                          |
| Acute Tox. 4 - H302<br>Eye Dam. 1 - H318   |                          |
| <b>Dimethylsiloxane, polymer, (((3-((2-aminoethyl)amino)propyl)-dimethoxysilyl)oxy)-terminated</b>                     | <b>2.5 - &lt;5%</b>      |
| CAS number: 71750-80-6                      EC number: 615-337-4   |                          |
| <b>Classification</b>  |                          |
| Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319  |                          |
| <b>2,6,8-Trimethyl-4-nonylpolyethylene glycolether</b>   | <b>1 - &lt;2.5%</b>      |
| CAS number: 60828-78-6                      EC number: 612-043-8   |                          |
| <b>Classification</b>  |                          |
| Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318  |                          |
| <b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b>   | <b>0.025 - &lt;0.25%</b> |
| CAS number: 68424-85-1                      EC number: 270-325-2   |                          |
| M factor (Acute) = 10                      M factor (Chronic) = 1  |                          |
| <b>Classification</b>  |                          |
| Acute Tox. 4 - H302<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                          |

## Armor All® Shield +Ceramic Car Wash

|                       |                      |
|-----------------------|----------------------|
| <b>ethyl acetate</b>  | <b>&lt;0.025%</b>    |
| CAS number: 141-78-6  | EC number: 205-500-4 |
| <b>Classification</b> |                      |
| Flam. Liq. 2 - H225   |                      |
| Eye Irrit. 2 - H319   |                      |
| STOT SE 3 - H336      |                      |

The full text for all hazard statements is 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>           | Gastrointestinal symptoms, including upset stomach.  |
| <b>Skin contact</b>        | Prolonged skin contact may cause redness and irritation. Prolonged skin contact may cause temporary irritation.                  |
| <b>Eye contact</b>         | Causes serious eye damage. May cause discomfort. Pain. Profuse watering of the eyes. Redness.                                    |

#### 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. |
|-----------------------------|--|

### 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>Specific hazards</b> | Containers can burst violently or explode when heated, due to excessive pressure build-up. |
|-------------------------|--|

## Armor All® Shield +Ceramic Car Wash

**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 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. Avoid contact with eyes. 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.

**Storage class** Non-flammable liquids that can not be assigned to any of the aforementioned LGK

### 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**  
ethyl acetate

## Armor All® Shield +Ceramic Car Wash

Long-term exposure limit (8-hour TWA): WEL 200 ppm 734 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 400 ppm 1468 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

### Octamethylcyclotetrasiloxane (CAS: 556-67-2)

|                |   |
|----------------|---|
| <b>DNEL</b>    | Workers - Inhalation; Long term systemic effects: 73 mg/m <sup>3</sup>            |
|                | Workers - Inhalation; Long term local effects: 73 mg/m <sup>3</sup>               |
|                | General population - Inhalation; Long term systemic effects: 13 mg/m <sup>3</sup> |
|                | General population - Inhalation; Long term local effects: 13 mg/m <sup>3</sup>    |
|                | General population - Oral; Long term systemic effects: 373.75 mg/kg/day           |
| <b>PNEC</b>    | Sediment (Freshwater); 1.5 µg/l   |
|                | Sediment (Marinewater); 0.15 µg/l   |
|                | STP; 10 mg/l  |
|                | Sediment (Freshwater); 3 mg/kg  |
|                | Sediment (Marinewater); 0.3 mg/kg   |
|                | Soil; 0.54 mg/kg  |
| Oral; 41 mg/kg |   |

### cis-2-tert-butylcyclohexyl acetate (CAS: 20298-69-5)

|                   |   |
|-------------------|---|
| <b>PNEC</b>       | Fresh water; 0.011 mg/l                       |
|                   | Fresh water, Intermittent release; 0.017 mg/l |
|                   | marine water; 0.001 mg/l                      |
|                   | STP; 10 mg/l                                  |
|                   | Sediment (Freshwater); 1.5 mg/kg              |
|                   | Sediment (Marinewater); 0.15 mg/kg            |
| Soil; 0.293 mg/kg |   |

### undecan-4-olide (CAS: 104-67-6)

|                  |   |
|------------------|---|
| <b>DNEL</b>      | Workers - Inhalation; Long term systemic effects: 19 mg/m <sup>3</sup>              |
|                  | Workers - Dermal; Long term systemic effects: 5.38 mg/kg/day                        |
|                  | General population - Inhalation; Long term systemic effects: 4.68 mg/m <sup>3</sup> |
|                  | General population - Dermal; Long term systemic effects: 2.7 mg/kg/day              |
|                  | General population - Oral; Long term systemic effects: 2.7 mg/kg/day                |
| <b>PNEC</b>      | Fresh water; 0.01752 mg/l   |
|                  | marine water; 0.00175 mg/l  |
|                  | STP; 80 mg/l  |
|                  | Sediment (Freshwater); 1.882 mg/kg  |
|                  | Sediment (Marinewater); 0.188 mg/kg   |
|                  | Soil; 0.366 mg/kg   |
| Oral; 66.7 mg/kg |   |

### Menthyl acetate (CAS: 89-48-5)

|             |  |
|-------------|--|
| <b>DNEL</b> | Workers - Inhalation; Long term systemic effects: 33.6 mg/m <sup>3</sup>           |
|             | Workers - Dermal; Long term systemic effects: 9.5 mg/kg/day                        |
|             | General population - Inhalation; Long term systemic effects: 8.3 mg/m <sup>3</sup> |
|             | General population - Dermal; Long term systemic effects: 4.8 mg/kg/day             |
|             | General population - Oral; Long term systemic effects: 4.8 mg/kg/day               |

## Armor All® Shield +Ceramic Car Wash

### PNEC

Fresh water; 0.0027 mg/l  
 marine water; 0.00027 mg/l  
 STP; 0.26 mg/l  
 Sediment (Freshwater); 0.434 mg/kg  
 Sediment (Marinewater); 0.043 mg/kg  
 Soil; 0.085 mg/kg  
 Oral; 317 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 'UKCA'-marked.

#### 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

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Appearance                      | Clear liquid.                        |
| Colour                          | Green.                               |
| Odour                           | Characteristic. Sweetish. Detergent. |
| Odour threshold                 | Not determined.                      |
| pH                              | 5 - 6                                |
| Melting point                   | Not relevant.                        |
| Initial boiling point and range | Not determined.                      |
| Flash point                     | Not determined.                      |

## Armor All® Shield +Ceramic Car Wash

|   |   |
|---|---|
| <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>                             | Not determined.   |
| <b>Bulk density</b>                                 | 1.0085 kg/l   |
| <b>Solubility(ies)</b>                              | Soluble in water.   |
| <b>Partition coefficient</b>                        | Not determined.   |
| <b>Auto-ignition temperature</b>                    | Not relevant.   |
| <b>Decomposition Temperature</b>                    | Not relevant.   |
| <b>Viscosity</b>                                    | ~ Water.  |
| <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. 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

## Armor All® Shield +Ceramic Car Wash

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

**ATE oral (mg/kg)** 5,555.56

### 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.

### Skin corrosion/irritation

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

### Serious eye damage/irritation

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

### 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

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

## 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.

### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

### 12.4. Mobility in soil

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



## Armor All® Shield +Ceramic Car Wash

### 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

**Disposal methods**      Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

## 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.  
    The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended).  
    The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## Armor All® Shield +Ceramic Car Wash

### 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>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: 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 SI 2019 No. 720</b>   | Eye Dam. 1 - H318: Calculation method.   |
| <b>Revision comments</b>  | This is the first issue.   |
| <b>Revision date</b>  | 11/05/2021   |
| <b>SDS number</b>   | 1402   |
| <b>Hazard statements in full</b>                                | <p>H225 Highly flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>  |

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