



## SAFETY DATA SHEET

### Armor All® Shield Tire Glaze

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 Tire Glaze  
Product number                    21500

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

Identified uses                    Enhancing automotive tyres.  
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                   Aerosol 1 - H222, H229  
Health hazards                    Not Classified  
Environmental hazards            Not Classified

Physicochemical                   Containers can burst violently or explode when heated, due to excessive pressure build-up.  
When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

##### 2.2. Label elements

###### Pictogram



## Armor All® Shield Tire Glaze

<b>Signal word</b>	Danger
<b>Hazard statements</b>	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated
<b>Precautionary statements</b>	P102 Keep out of reach of children. 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.
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.

### 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>Hydrocarbons, C11-C14, isoalkanes, cyclics, &lt;2% aromatics</b>	<b>50 - 75%</b>
CAS number: —	EC number: 927-285-2
	REACH registration number: 01-2119480162-45-XXXX

**Classification**  
Asp. Tox. 1 - H304

<b>Hydrocarbons, C3-4-rich, petroleum distillate</b>	<b>7.5 - &lt;10%</b>
CAS number: 68512-91-4	EC number: 270-990-9

**Classification**  
Flam. Gas 1 - H220  
Press. Gas, Liquefied - H280

<b>dimethyl ether</b>	<b>2.5 - &lt;3.5%</b>
CAS number: 115-10-6	EC number: 204-065-8
	REACH registration number: 01-2119472128-37-XXXX

Substance with National workplace exposure limits.

**Classification**  
Flam. Gas 1 - H220  
Press. Gas, Liquefied - H280

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. Get medical attention if any discomfort continues.

## Armor All® Shield Tire Glaze

<b>Ingestion</b>	Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Do not use organic solvents. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	Prolonged contact may cause redness and/or tearing.

### 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 the following media: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO <sub>2</sub> ). Water spray, fog or mist.
<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>Protective actions during firefighting</b>	Use water to keep fire exposed containers cool and disperse vapours.
<b>Special protective equipment for firefighters</b>	Use air-supplied respirator, gloves and protective goggles.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Ventilate closed spaces before entering them. 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.
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### 6.4. Reference to other sections

## Armor All® Shield Tire Glaze

**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. 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.

#### 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

##### Occupational exposure limits

##### Hydrocarbons, C3-4-rich, petroleum distillate

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

##### dimethyl ether

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

**Appropriate engineering controls** Avoid inhalation of vapours and spray/mists. Provide adequate ventilation.

**Eye/face protection** No specific eye protection required during normal use. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

**Hand protection** 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** Aerosol.

**Colour** Clear.

**Odour** Solvent.

**Odour threshold** Not determined.

**pH** Not determined.

**Melting point** Not determined.

## Armor All® Shield Tire Glaze

<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 exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition. Avoid the accumulation of vapours in low or confined areas.

### 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** Does not decompose when used and stored as recommended. Decomposition at ambient temperatures may generate the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Acrid smoke or fumes.

## Armor All® Shield Tire Glaze

### 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.

##### Skin corrosion/irritation

**Animal data** 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

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

##### Skin contact

Repeated exposure may cause skin dryness or cracking.

#### Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> : > 15000 mg/kg, Rat, Read-across data. Based on available data the classification criteria are not met.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> : ≥ 3160 mg/kg, Rabbit, Read-across data. Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

## Armor All® Shield Tire Glaze

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> : >4951 mg/m<sup>3</sup>, Vapour, Rat 4 hours Read-across data. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Read-across data.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 ml, 1 second, Rabbit Not irritating. REACH dossier information. Read across data.

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read across data.

### Germ cell mutagenicity

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

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

### Carcinogenicity

**Carcinogenicity** NOAEC ≥ 2200 mg/m<sup>3</sup>, Inhalation, Rat REACH dossier information. Read-across data.

### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility - NOAEL ≥ 3000 mg/kg/day, Oral, Rat F1 REACH dossier information. Read-across data.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: ≥ 5220 mg/m<sup>3</sup>, Inhalation, Rat REACH dossier information.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC > 10400 mg/m<sup>3</sup>, Inhalation, Rat REACH dossier information. Read across data.

### Aspiration hazard

**Aspiration hazard** 1.75 cSt @ 25°C Asp. Tox. 1 - H304

### Hydrocarbons, C3-4-rich, petroleum distillate

### Germ cell mutagenicity

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

### Reproductive toxicity

**Reproductive toxicity - fertility** One-generation study - NOAEC 10000 ppm, Inhalation, Rat P REACH dossier information.

**Reproductive toxicity - development** Developmental toxicity: - NOAEC: 10426 ppm, Inhalation, Rat REACH dossier information.

### dimethyl ether

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 164,000.0

**Species** Rat

## Armor All® Shield Tire Glaze

<b>Notes (inhalation LC<sub>50</sub>)</b>	REACH dossier information.
<b>ATE inhalation (gases ppm)</b>	164,000.0
<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>	Genome mutation: Negative. REACH dossier information.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEL 2.5 %, Inhalation, Rat REACH dossier information.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	- NOAEL 2.5 %, Inhalation, Rat REACH dossier information.
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: 40000 ppm, Inhalation, Rat REACH dossier information.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

<b>Acute toxicity - fish</b>	LL <sub>50</sub> , 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information. Read-across data.
<b>Acute toxicity - aquatic invertebrates</b>	EL <sub>50</sub> , 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information. Read-across data.
<b>Acute toxicity - aquatic plants</b>	EL <sub>50</sub> , 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata REACH dossier information. Read-across data.
<b>Chronic toxicity - fish early life stage</b>	NOELR, 28 days: 0.103 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information. Calculation method.
<b>Chronic toxicity - aquatic invertebrates</b>	NOELR, 21 days: 1 mg/l, Daphnia magna REACH dossier information. Calculation method.

#### Hydrocarbons, C3-4-rich, petroleum distillate

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 49.47 mg/l, Algae REACH dossier information. QSAR
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#### dimethyl ether



## Armor All® Shield Tire Glaze

<b>Acute toxicity - fish</b>	NOEC, 96 hours: ≥ 4100 mg/l, Poecilia reticulata (Guppy) LC <sub>50</sub> , 96 hours: > 4100 mg/l, Poecilia reticulata (Guppy) REACH dossier information.
<b>Acute toxicity - aquatic invertebrates</b>	NOEC, 48 hours: ≥ 4400 mg/l, Daphnia magna EC <sub>50</sub> , 48 hours: > 4400 mg/l, Daphnia magna REACH dossier information.
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 154.917 mg/l, Fish QSAR REACH dossier information.

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

#### Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

<b>Biodegradation</b>	Water - Degradation (61.3%): 18 days Water - Degradation (77.6%): 28 days REACH dossier information. The substance is readily biodegradable.
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#### Hydrocarbons, C3-4-rich, petroleum distillate

<b>Phototransformation</b>	Water - DT <sub>50</sub> : 1906 days REACH dossier information. Calculation method.
<b>Biodegradation</b>	Water - Degradation (100%): 385.5 hours REACH dossier information. The substance is readily biodegradable.

#### dimethyl ether

<b>Biodegradation</b>	Water - Degradation (5%): 28 days REACH dossier information.
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### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

#### Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

<b>Partition coefficient</b>	Scientifically unjustified. REACH dossier information.
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#### Hydrocarbons, C3-4-rich, petroleum distillate

<b>Partition coefficient</b>	log Pow: 2.3058 REACH dossier information. QSAR
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#### dimethyl ether

<b>Partition coefficient</b>	log Pow: 0.07 QSAR REACH dossier information.
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### 12.4. Mobility in soil

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

## Armor All® Shield Tire Glaze

### Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

<b>Mobility</b>	The product has poor water-solubility.
<b>Surface tension</b>	26 mN/m @ 25°C

#### 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 Do not puncture or incinerate, even when empty.

### **SECTION 14: Transport information**

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1950
<b>UN No. (IMDG)</b>	1950
<b>UN No. (ICAO)</b>	1950
<b>UN No. (ADN)</b>	1950

#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	AEROSOLS
<b>Proper shipping name (IMDG)</b>	AEROSOLS
<b>Proper shipping name (ICAO)</b>	AEROSOLS
<b>Proper shipping name (ADN)</b>	AEROSOLS

#### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	2.1
<b>ADR/RID classification code</b>	5F
<b>ADR/RID label</b>	2.1
<b>IMDG class</b>	2.1
<b>ICAO class/division</b>	2.1
<b>ADN class</b>	2.1

#### **Transport labels**



#### 14.4. Packing group

Not applicable.

## Armor All® Shield Tire Glaze

### 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 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 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. Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

### 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	Aerosol 1 - H222, H229: Expert judgement.
Revision comments	This is first issue.
Revision date	12/11/2015
SDS number	861
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways.

## Armor All® Shield Tire Glaze

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