



## SAFETY DATA SHEET

### Armor All® Stain Remover Foam 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® Stain Remover Foam Cleaner  
**Product number** 38400xxB, 38500xxB

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

**Identified uses** Automotive foam 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** 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

###### Hazard pictograms



**Signal word** Danger

## Armor All® Stain Remover Foam Cleaner

<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>Detergent labelling</b>	5 - < 15% aliphatic hydrocarbons, < 5% non-ionic surfactants, < 5% perfumes, Contains CITRAL, D-LIMONENE

### 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, C3-4-rich, petroleum distillate</b>	<b>5 - &lt;10%</b>
CAS number: 68512-91-4                      EC number: 270-990-9	
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas (Liq.) - H280	
<b>2-Butoxyethanol</b>	<b>2 - &lt;3%</b>
CAS number: 111-76-2                      EC number: 203-905-0	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
<b>Sodium nitrite</b>	<b>0.25 - &lt;0.5%</b>
CAS number: 7632-00-0                      EC number: 231-555-9	
M factor (Acute) = 1	
<b>Classification</b> Ox. Sol. 3 - H272 Acute Tox. 3 - H301 Aquatic Acute 1 - H400	

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<b>Morpholine</b>	<b>0.25 - &lt;0.5%</b>
CAS number: 110-91-8	EC number: 203-815-1
<b>Classification</b>	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H302	
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	

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>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
<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. 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 any discomfort continues.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and 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>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	Due to the physical nature of this product, exposure by this route is unlikely.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	May be slightly irritating to eyes. May cause discomfort.

#### 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

<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

## Armor All® Stain Remover Foam Cleaner

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.
<b>5.3. Advice for firefighters</b>	
<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 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. Evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Risk of explosion.

**For non-emergency personnel** No action shall be taken without appropriate training or involving any personal risk.

#### 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. Ventilate closed spaces before entering them. 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. Keep away from heat, sparks and open flame. Provide adequate ventilation. Ground/bond container and receiving equipment. Keep away from heat, sparks and open flame.

**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** Flammable compressed gas storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## Armor All® Stain Remover Foam Cleaner

### 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>

##### 2-Butoxyethanol

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m<sup>3</sup>

Sk

##### Morpholine

Long-term exposure limit (8-hour TWA): WEL 10 ppm 36 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 20 ppm 72 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

#### Linalool (CAS: 78-70-6)

##### DNEL

Workers - Inhalation; Long term systemic effects: 2.8 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term systemic effects: 16.5 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg/day  
 Workers - Dermal; Short term systemic effects: 5 mg/kg/day  
 Workers - Dermal; Long term local effects: 3 mg/cm<sup>2</sup>  
 Workers - Dermal; Short term local effects: 3 mg/cm<sup>2</sup>  
 General population - Inhalation; Long term systemic effects: 0.7 mg/m<sup>3</sup>  
 General population - Inhalation; Short term systemic effects: 4.1 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 1.25 mg/kg/day  
 General population - Dermal; Short term systemic effects: 23.5 mg/kg/day  
 General population - Dermal; Long term local effects: 1.5 mg/cm<sup>2</sup>  
 General population - Dermal; Short term local effects: 1.5 mg/cm<sup>2</sup>  
 General population - Oral; Long term systemic effects: 0.2 mg/kg/day  
 General population - Oral; Short term systemic effects: 1.2 mg/kg/day

##### PNEC

Fresh water; 0.2 mg/l  
 marine water; 0.02 mg/l  
 STP; 10 mg/l  
 Sediment (Freshwater); 2.22 mg/kg  
 Sediment (Marinewater); 0.222 mg/kg  
 Soil; 0.327 mg/kg  
 Oral; 7.8 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.

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<b>Eye/face protection</b>	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.
<b>Hand protection</b>	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.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	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.
<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	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>	Opaque liquid.
<b>Colour</b>	White.
<b>Odour</b>	Citrus.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (concentrated solution): 10.2 - 10.9 Liquid.
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	Not relevant.
<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 relevant.
<b>Decomposition Temperature</b>	Not relevant.
<b>Viscosity</b>	Not determined.

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<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

<b>Other information</b>	No information required.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Will not polymerise.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	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. Pressurised container: may burst if heated
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	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.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE oral (mg/kg)</b>	23,128.89
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE dermal (mg/kg)</b>	30,753.46
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#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE inhalation (vapours mg/l)</b>	95.77
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#### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
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#### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
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## Armor All® Stain Remover Foam Cleaner

### 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.

### Toxicological information on ingredients.

#### 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.

#### 2-Butoxyethanol

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,746.0

**Species** Rat

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

**ATE oral (mg/kg)** 1,746.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,200.0

**Species** Rabbit

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

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<b>ATE dermal (mg/kg)</b>	1,200.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	cATpE: Converted Acute Toxicity Point Estimate.
<b>ATE inhalation (vapours mg/l)</b>	3.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Irritating.
<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>	Gene mutation: Negative. REACH dossier information.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEC 125 ppm, Inhalation, Mouse REACH dossier information. Limited evidence of a carcinogenic effect.
<b>IARC carcinogenicity</b>	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse P, F1 REACH dossier information.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEL: 50 ppm, Inhalation, Rabbit REACH dossier information.

### Sodium nitrite

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	180.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	REACH dossier information.
<b>ATE oral (mg/kg)</b>	180.0

### Morpholine

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,900.0
<b>Species</b>	Rat

## Armor All® Stain Remover Foam Cleaner

<b>Notes (oral LD<sub>50</sub>)</b>	REACH dossier information.
<b>ATE oral (mg/kg)</b>	1,900.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	500.0
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	REACH dossier information.
<b>ATE dermal (mg/kg)</b>	500.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	8.0
<b>Species</b>	Rat
<b>Notes (inhalation LC<sub>50</sub>)</b>	REACH dossier information.
<b>ATE inhalation (vapours mg/l)</b>	8.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.5 ml, 3 minute, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Corrosive.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Corrosive to skin. Corrosivity to eyes is assumed. REACH dossier information.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	DNA damage and/or repair: Negative. REACH dossier information.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEC > 543 mg/m <sup>3</sup> , Inhalation, Rat REACH dossier information.
<b>IARC carcinogenicity</b>	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: 750 mg/kg/day, Oral, Rat REACH dossier information. Read-across data.

### 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.

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

#### Acute aquatic toxicity

## Armor All® Stain Remover Foam Cleaner

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 49.47 mg/l, Fish  
REACH dossier information.  
QSAR

### 2-Butoxyethanol

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1474 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 1550 mg/l, Daphnia magna  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 911 mg/l, Pseudokirchneriella subcapitata  
REACH dossier information.

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 21 day: > 100 mg/l, Brachydanio rerio (Zebra Fish)  
REACH dossier information.

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 100 mg/l, Daphnia magna  
REACH dossier information.

### Sodium nitrite

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.54 - 26.3 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>0</sub>, 48 hours: 4.6 mg/l, Daphnia magna  
EC<sub>50</sub>, 48 hours: 15.4 mg/l, Daphnia magna  
EC<sub>100</sub>, 48 hours: > 100 mg/l, Daphnia magna  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: > 100 mg/l, Desmodesmus subspicatus  
NOEC, 72 hours: 100 mg/l, Desmodesmus subspicatus  
REACH dossier information.

**Acute toxicity - microorganisms** EC<sub>50</sub>, 24 hours: 285 mg/l, Spirostomum ambiguum  
EC<sub>50</sub>, 48 hours: 281 mg/l, Spirostomum ambiguum  
REACH dossier information.

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 29 days: 1.05 mg/l, Cyprinus carpio (Common carp)  
REACH dossier information.

**Chronic toxicity - aquatic invertebrates** NOEC, 80 days: 9.86 mg/l, Penaeus monodon (Asian tiger shrimp)  
EC<sub>50</sub>, 80 days: 114.9 mg/l, Penaeus monodon (Asian tiger shrimp)  
LC<sub>50</sub>, 80 days: > 95.6 mg/l, Penaeus monodon (Asian tiger shrimp)  
REACH dossier information.

### Morpholine

#### Acute aquatic toxicity

## Armor All® Stain Remover Foam Cleaner

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 179 mg/l, Valamugil engeli REACH dossier information.
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 45 mg/l, Daphnia magna REACH dossier information.
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 28 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
<b>Acute toxicity - microorganisms</b>	EC <sub>20</sub> , 30 minutes: > 1000 mg/l, Activated sludge REACH dossier information.
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 5 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.

#### 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.

#### 2-Butoxyethanol

<b>Biodegradation</b>	Water - Degradation (18.3%): 3 days Water - Degradation (40.5%): 6 days Water - Degradation (43%): 8 days Water - Degradation (58.7%): 11 days Water - Degradation (90.4%): 28 days REACH dossier information. The substance is readily biodegradable.
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#### Morpholine

<b>Phototransformation</b>	Water - DT <sub>50</sub> : 2.79 hours Calculation method. REACH dossier information.
<b>Biodegradation</b>	Water - Degradation (2%): 1 day Water - Degradation (5.5%): 15 days Water - Degradation (34.1%): 18 days Water - Degradation (93%): 25 days REACH dossier information. The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

## Armor All® Stain Remover Foam Cleaner

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

**Partition coefficient** Not determined.

### Ecological information on ingredients.

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

**Partition coefficient** log Pow: 2.3058 REACH dossier information. QSAR

#### 2-Butoxyethanol

**Partition coefficient** log Pow: 0.81 REACH dossier information.

#### Morpholine

**Bioaccumulative potential** BCF:  $\leq 0.65$ , Cyprinus carpio (Common carp) REACH dossier information.

**Partition coefficient** log Pow: -2.55 REACH dossier information.

### 12.4. Mobility in soil

**Mobility** The product has poor water-solubility.

### Ecological information on ingredients.

#### 2-Butoxyethanol

**Surface tension** 65.03 mN/m @ 20°C REACH dossier information.

#### Morpholine

**Adsorption/desorption coefficient** log Koc -0.6196 Calculation method. REACH dossier information.

**Henry's law constant** 0.0116 Pa m<sup>3</sup>/mol @ 25°C REACH dossier information. Calculation method.

### 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

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

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### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels



### 14.4. Packing group

Not applicable.

### 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.

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.

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### 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).

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ATE: Acute Toxicity Estimate.

DNEL: Derived No Effect Level.

LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

BCF: Bioconcentration Factor.

#### Classification procedures according to Regulation (EC) 1272/2008

Aerosol 1 - H222, H229: Expert judgement.

#### Revision comments

Document revised.

#### Revision date

26/11/2018

#### Revision

1

#### Supersedes date

04/11/2015

#### SDS number

858

## Armor All® Stain Remover Foam Cleaner

### Hazard statements in full

H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H226 Flammable liquid and vapour.  
H229 Pressurised container: may burst if heated.  
H272 May intensify fire; oxidiser.  
H280 Contains gas under pressure; may explode if heated.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H400 Very toxic to aquatic life.

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