



SAFETY DATA SHEET

Armor All® Bug Wipes

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® Bug Wipes

Product number 75130

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

Identified uses Wipes for removal of tough stains from car's exterior.

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 (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard statements EUH208 Contains d-Limonene. May produce an allergic reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P102 Keep out of reach of children.
P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.

Detergent labelling < 5% cationic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% perfumes, Contains D-LIMONENE, CITRAL, LINALOOL

Armor All® Bug Wipes

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

3-butoxypropan-2-ol CAS number: 5131-66-8	EC number: 225-878-4	REACH registration number: 01-2119475527-28-XXXX	1 - <2.5%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319			
2-aminoethanol CAS number: 141-43-5	EC number: 205-483-3	REACH registration number: 01-2119486455-28-XXXX	0.5 - <1%
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 STOT SE 3 - H335 Aquatic Chronic 3 - H412			
Alcohols, C12-15, ethoxylated CAS number: 68131-39-5 M factor (Acute) = 1			0.25 - <0.5%
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412			
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS number: 68424-85-1	EC number: 270-325-2	REACH registration number: 01-2119970550-39-XXXX	0.25 - <0.5%
M factor (Acute) = 10	M factor (Chronic) = 1		
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

Armor All® Bug Wipes

d-Limonene	0.025 - <0.25%
CAS number: 5989-27-5	EC number: 227-813-5
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	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.
Ingestion	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.
Skin contact	Brush off loose particles from skin. Wash with plenty of water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Drowsiness. Dizziness.
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur. May cause discomfort if swallowed.
Skin contact	Due to the physical nature of this product, exposure by this route is unlikely. Prolonged skin contact may cause redness and irritation.
Eye contact	Due to the physical nature of this product, exposure by this route is unlikely. May cause irritation.

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

Notes for the doctor	Treat symptomatically. Keep affected person under observation.
-----------------------------	--

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.
-------------------------------------	--

Armor All® Bug Wipes

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

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

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 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. 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. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. 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.

7.3. Specific end use(s)

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

Armor All® Bug Wipes

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

2-aminoethanol

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 3 ppm 7.6 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

3-butoxypropan-2-ol (CAS: 5131-66-8)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 147 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 52 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 43 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 22 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 12.5 mg/kg/day</p>
PNEC	<p>Fresh water; 0.525 mg/l</p> <p>Fresh water, Intermittent release; 5.25 mg/l</p> <p>marine water; 0.052 mg/l</p> <p>STP; 10 mg/l</p> <p>Sediment (Freshwater); 2.36 mg/kg</p> <p>Sediment (Marinewater); 0.236 mg/kg</p> <p>Soil; 0.16 mg/kg</p>

hexyl D-glucoside (CAS: 54549-24-5)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 420 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 595000 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 124 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 357000 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 35.7 mg/kg/day</p>
PNEC	<p>Fresh water; 0.176 mg/l</p> <p>Fresh water, Intermittent release; 4.2 mg/l</p> <p>marine water; 0.018 mg/l</p> <p>STP; 100 mg/l</p> <p>Sediment (Freshwater); 0.722 mg/kg</p> <p>Sediment (Marinewater); 0.072 mg/kg</p> <p>Soil; 0.654 mg/kg</p> <p>Oral; 111.11 mg/kg</p>

2-aminoethanol (CAS: 141-43-5)

DNEL	<p>Workers - Inhalation; Long term local effects: 3.3 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 1 mg/kg/day</p> <p>General population - Inhalation; Long term local effects: 2 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.24 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 3.75 mg/kg/day</p>
-------------	---

Armor All® Bug Wipes

PNEC	Fresh water; 0.085 mg/l
	marine water; 0.009 mg/l
	STP; 100 mg/l
	Sediment (Freshwater); 0.434 mg/kg
	Sediment (Marinewater); 0.043 mg/kg
	Soil; 0.037 mg/kg

tetrasodium ethylene diamine tetraacetate (CAS: 64-02-8)

DNEL	Workers - Inhalation; Long term local effects: 1.5 mg/m ³
	Workers - Inhalation; Short term local effects: 3 mg/m ³
	General population - Inhalation; Long term local effects: 0.6 mg/m ³
	General population - Inhalation; Short term local effects: 1.2 mg/m ³
	General population - Oral; Long term systemic effects: 25 mg/kg/day
PNEC	Fresh water; 2.2 mg/l
	marine water; 0.22 mg/l
	STP; 43 mg/l
	Soil; 0.72 mg/kg

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS: 68424-85-1)

DNEL	Workers - Inhalation; Long term systemic effects: 3.96 mg/m ³
	Workers - Dermal; Long term systemic effects: 5.7 mg/kg/day
	General population - Inhalation; Long term systemic effects: 1.64 mg/m ³
	General population - Dermal; Long term systemic effects: 3.4 mg/kg/day
	General population - Oral; Long term systemic effects: 3.4 mg/kg/day
PNEC	Fresh water; 0.001 mg/l
	marine water; 0.001 mg/l
	STP; 0.4 mg/l
	Sediment (Freshwater); 12.27 mg/kg
	Sediment (Marinewater); 13.09 mg/kg
	Soil; 7 mg/kg

Citric acid (CAS: 77-92-9)

PNEC	- Fresh water; 0.44 mg/l
	- marine water; 0.044 mg/l
	- STP; 1000 mg/l
	- Sediment (Freshwater); 34.6 mg/kg
	- Sediment (Marinewater); 3.46 mg/kg
	- Soil; 33.1 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.

Armor All® Bug Wipes

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 'CE'-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	Liquid-impregnated wipe.
Colour	White.
Odour	Characteristic. Citrus.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not determined.
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	0.987 – 1.007 : Liquid.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.

Armor All® Bug Wipes

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	Keep away from heat, sparks and open flame. Avoid excessive heat for prolonged periods of time.
----------------------------	---

10.5. Incompatible materials

Materials to avoid	None known.
---------------------------	-------------

10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO ₂). Carbon monoxide (CO). Toxic gases or vapours.
---	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
-------------------------------------	--

Acute toxicity - dermal

Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
---------------------------------------	--

Acute toxicity - inhalation

Notes (inhalation LC₅₀)	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	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

Armor All® Bug Wipes

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 Based on available data the classification criteria are not met.

Toxicological information on ingredients.

3-butoxypropan-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,300.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 3,300.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 650.0

Species Rat

Notes (inhalation LC₅₀) REACH dossier information.

ATE inhalation (vapours mg/l) 650.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml (75%), 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). REACH dossier information. Irritating.

Serious eye damage/irritation

Armor All® Bug Wipes

Serious eye damage/irritation	Irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Buehler test - Guinea pig: Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	NOEL 300 ppm, Inhalation, Rat REACH dossier information. Read-across data.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOEL 1000 ppm, Inhalation, Rat F1 REACH dossier information. Read-across data.
Reproductive toxicity - development	Developmental toxicity: - NOEL: 880 mg/kg/day, Dermal, Rat REACH dossier information.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOEL 350 mg/kg/day, Oral, Rat REACH dossier information.

2-aminoethanol

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	1,515.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	1,515.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	1,025.0
Species	Rabbit
Notes (dermal LD₅₀)	IUCLID data sheet
ATE dermal (mg/kg)	1,025.0
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Converted acute toxicity point estimate (cATpE)
ATE inhalation (vapours mg/l)	11.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit REACH dossier information. Corrosive.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.005 ml, 10 seconds, Rabbit REACH dossier information. Corrosive.
<u>Skin sensitisation</u>	

Armor All® Bug Wipes

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOEL 1000 ppm, Oral, Rat F1 REACH dossier information.
Reproductive toxicity - development	Maternal toxicity: - NOEL: 120 mg/kg/day, Oral, Rat REACH dossier information.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	STOT SE 3 - H335 May cause respiratory irritation.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEC 10 mg/m ³ , Inhalation, Rat REACH dossier information.

Alcohols, C12-15, ethoxylated

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	500.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,001.0
Species	Rat
Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	2,001.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit REACH dossier information. Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Eye Dam. 1 - H318 May cause serious eye damage.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOEL ≥250 mg/kg/day, Dermal, Rat P, F1 REACH dossier information. Read across data.
Reproductive toxicity - development	Developmental toxicity: - NOEL: ≥250 mg/kg/day, Dermal, Rat REACH dossier information. Read across data.

Armor All® Bug Wipes

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 250 mg/kg/day, Oral, Rat REACH dossier information. Read across data.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

3-butoxypropan-2-ol

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 560-1000 mg/l, Poecilia reticulata (Guppy) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: > 1000 mg/l, Selenastrum capricornutum REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: > 1000 mg/l, Activated sludge REACH dossier information.

2-aminoethanol

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 349 mg/l, Cyprinus carpio (Common carp) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 65 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.8 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Acute toxicity - microorganisms	EC ₁₀ , 30 minutes: > 1000 mg/l, Activated sludge REACH dossier information.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 41 days: 1.24 mg/l, Oryzias latipes (Red killifish) REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.85 mg/l, Daphnia magna REACH dossier information.

Alcohols, C12-15, ethoxylated

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.14 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.75 mg/l, Selenastrum capricornutum REACH dossier information.

Armor All® Bug Wipes

Acute toxicity - microorganisms EC₅₀, 16.9 hours: > 10000 mg/l, Pseudomonas putida
REACH dossier information.
Read across data.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 30 days: > 0.33 mg/l, Lepomis macrochirus (Bluegill)
REACH dossier information.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.456 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.016 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.049 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₅₀, 3 hours: 7.75 mg/l, Activated sludge

Acute toxicity - terrestrial LC₅₀, 14 days: 7070 mg/kg, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early life stage NOEC, 34 days: 0.032 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.0042 mg/l, Daphnia magna

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.

3-butoxypropan-2-ol

Biodegradation Water - Degradation (90%): 28 days
REACH dossier information.
The substance is readily biodegradable.

2-aminoethanol

Phototransformation Water - DT₅₀ : 10.742 hours
REACH dossier information.
Estimated value.

Biodegradation Water - Degradation (>90%): 21 days
REACH dossier information.

Armor All® Bug Wipes

Alcohols, C12-15, ethoxylated

Biodegradation Water - Degradation 72: 28 days
REACH dossier information.
Readily biodegradable but failing the 10-day window.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Phototransformation Air - DT₅₀ : 0.25 days

Biodegradation Water - Degradation 95.5%: 28 days
The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

3-butoxypropan-2-ol

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 1.2 REACH dossier information.

2-aminoethanol

Bioaccumulative potential BCF: 2.3, REACH dossier information. QSAR

Partition coefficient log Pow: -1.91 REACH dossier information.

Alcohols, C12-15, ethoxylated

Bioaccumulative potential BCF: 12.7, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Read across data.

Partition coefficient log Pow: 2.03 - 6.24 REACH dossier information. QSAR

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Bioaccumulative potential BCF: 79, Lepomis macrochirus (Bluegill)

12.4. Mobility in soil

Mobility The product is partly soluble in water and may spread in the aquatic environment.

Ecological information on ingredients.

3-butoxypropan-2-ol

Surface tension 27.6 mN/m @ 20°C/68°F REACH dossier information.

2-aminoethanol

Henry's law constant 0.000000118 Pa m³/mol @ 25°C/77°F REACH dossier information.

Alcohols, C12-15, ethoxylated

Surface tension 21.9 - 28.8 mN/m @ 20°C/66°F REACH dossier information.

Armor All® Bug Wipes

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Mobility Soluble in water.

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.

Ecological information on ingredients.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

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

Armor All® Bug Wipes

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).
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. 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 ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : 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	Aquatic Chronic 3 - H412, EUH208: Calculation method.
Revision comments	Revised formulation.
Revision date	26/03/2021
Revision	7
Supersedes date	19/03/2020
SDS number	238

Armor All® Bug Wipes

Hazard statements in full

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains d-Limonene. May produce an allergic reaction.

The information supplied here is accurate to the best knowledge and belief of Energizer Trading Ltd, it is however, not intended as a warranty or representation, and should not be construed as such, for which Energizer Trading Ltd assumes any legal responsibility. Any information or advice obtained from Energizer Trading Ltd other than by means of this publication, and whether relating to Energizer Trading Ltd's products or other materials is also given in good faith. It remains at all times the responsibility of the customer, and user, to ensure that the materials are suitable for the particular purpose intended. Materials not manufactured, or supplied, by Energizer Trading Ltd when used instead of, or in conjunction with materials supplied by Energizer Trading Ltd, it is the customer's responsibility to ensure that all technical, and other information related to such materials is obtained from the manufacturer or supplier. Energizer Trading Ltd accepts no liability for the data contained within this document, as the information herein may be applied under conditions beyond our control, and in situations with which we may be unfamiliar. The information contained within this document is furnished upon condition that the customer and user of this product makes his own determination of the suitability of the product for his particular purpose.