



SAFETY DATA SHEET

Armor All® Shield Snow Foam Car Wash

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 Snow Foam Car Wash

Product number 28520

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 (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H315 Causes skin irritation.
H318 Causes serious eye damage.

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Precautionary statements	<p>P102 Keep out of reach of children.</p> <p>P280 Wear protective gloves and eye protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p>
Supplemental label information	<p>Contains a preservative (IODOPROPYNYL BUTYLCARBAMATE, DMDM HYDANTOIN) to control microbial deterioration.</p> <p>May produce an allergic reaction.</p>
Contains	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts, Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)
Detergent labelling	5 - < 15% anionic surfactants, < 5% non-ionic surfactants, < 5% perfumes, Contains DMDM HYDANTOIN, IODOPROPYNYL BUTYLCARBAMATE, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE
Supplementary precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p>

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

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.			2.5 - <5%
CAS number: 85536-14-7	EC number: 287-494-3	REACH registration number: 01-2119490234-40-XXXX	
Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412			
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts			1 - <2.5%
CAS number: —	EC number: 931-534-0	REACH registration number: 01-2119513401-57-XXXX	
This substance has specific concentration limits.			
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318			

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Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)		1 - <2.5%
CAS number: —	EC number: 931-329-6	REACH registration number: 01-2119490100-53-XXXX
This is a complex mixture of constituents, a UVCB substance of variable composition.		
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411		
Sodium hydroxide		0.25 - <0.5%
CAS number: 1310-73-2	EC number: 215-185-5	
Classification Skin Corr. 1A - H314 Eye Dam. 1 - H318		
Glycerol		0.25 - <0.5%
CAS number: 56-81-5	EC number: 200-289-5	
Classification Not Classified		

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	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.
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	Gastrointestinal symptoms, including upset stomach.

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Skin contact	Irritating to skin. Redness.
Eye contact	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

Notes for the doctor	Treat symptomatically. Keep affected person under observation.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
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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.
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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.
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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.
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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.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

Glycerol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

WEL = Workplace Exposure Limit.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (CAS: 85536-14-7)

DNEL

Workers - Inhalation; Long term systemic effects: 7.6 mg/m³
 Workers - Dermal; Long term systemic effects: 119 mg/kg/day
 General population - Inhalation; Long term systemic effects: 1.3 mg/m³
 General population - Dermal; Long term systemic effects: 42.5 mg/kg/day
 General population - Oral; Long term systemic effects: 0.425 mg/kg/day

PNEC

Fresh water; 0.268 mg/l
 marine water; 0.027 mg/l
 Intermittent release; 0.017 mg/l
 STP; 3.43 mg/l
 Sediment (Freshwater); 8.1 mg/kg
 Sediment (Marinewater); 6.8 mg/kg
 Soil; 35 mg/kg

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

DNEL

Workers - Inhalation; Long term systemic effects: 152.22 mg/m³
 Workers - Dermal; Long term systemic effects: 2158.33 mg/kg/day
 General population - Inhalation; Long term systemic effects: 45.04 mg/m³
 General population - Dermal; Long term systemic effects: 1295 mg/kg/day
 General population - Oral; Long term systemic effects: 12.95 mg/kg/day

PNEC

Fresh water; 0.024 mg/l
 Fresh water, Intermittent release; 0.02 mg/l
 marine water; 0.002 mg/l
 STP; 4 mg/l
 Sediment (Freshwater); 0.767 mg/kg
 Sediment (Marinewater); 0.077 mg/kg
 Soil; 1.21 mg/kg

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

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DNEL

Workers - Inhalation; Long term systemic effects: 73.4 mg/m³
 Workers - Dermal; Long term systemic effects: 4.16 mg/kg/day
 Workers - Dermal; Long term local effects: 93.6 µg/cm²
 General population - Inhalation; Long term systemic effects: 21.73 mg/m³
 General population - Dermal; Long term systemic effects: 2.5 mg/kg/day
 General population - Dermal; Long term local effects: 56.2 µg/cm²
 General population - Oral; Long term systemic effects: 6.25 mg/kg/day

PNEC

Fresh water; 0.007 mg/l
 marine water; 0.001 mg/l
 STP; 830 mg/l
 Sediment (Freshwater); 0.195 mg/kg
 Sediment (Marinewater); 0.019 mg/kg
 Soil; 0.035 mg/kg

tetramethyl acetyloctahydronaphthalenes

DNEL

Workers - Inhalation; Long term systemic effects: 30 mg/m³
 Workers - Dermal; Long term systemic effects: 28.7 mg/kg/day
 Workers - Dermal; Long term local effects: 648 µg/cm²
 General population - Inhalation; Long term systemic effects: 9 mg/m³
 General population - Dermal; Long term systemic effects: 17.2 mg/kg/day
 General population - Dermal; Long term local effects: 380 µg/cm²
 General population - Oral; Long term systemic effects: 3 mg/kg/day

PNEC

Fresh water; 0.0028 mg/l
 marine water; 0.00028 mg/l
 STP; 10 mg/l
 Sediment (Freshwater); 3.73 mg/kg
 Sediment (Marinewater); 0.75 mg/kg
 Soil; 2.7 mg/kg
 Oral; 10 mg/kg

Linalool (CAS: 78-70-6)

DNEL

Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
 Workers - Inhalation; Short term systemic effects: 16.5 mg/m³
 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/cm²
 Workers - Dermal; Short term local effects: 3 mg/cm²
 General population - Inhalation; Long term systemic effects: 0.7 mg/m³
 General population - Inhalation; Short term systemic effects: 4.1 mg/m³
 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/cm²
 General population - Dermal; Short term local effects: 1.5 mg/cm²
 General population - Oral; Long term systemic effects: 0.2 mg/kg/day
 General population - Oral; Short term systemic effects: 1.2 mg/kg/day

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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.

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	Clear liquid.
Colour	Violet.
Odour	Fresh.
Odour threshold	Not determined.
pH	pH (concentrated solution): 9 - 10
Melting point	Not relevant.
Initial boiling point and range	Not determined.
Flash point	Not determined.

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Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	0.993 - 1.023
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
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.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with acids.
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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.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
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ATE oral (mg/kg)	38,481.68
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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 Skin Irrit. 2 - H315 Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Eye Dam. 1 - H318 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.

Toxicological information on ingredients.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,470.0

Species Rat

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 1,470.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat Read-across data.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Primary dermal irritation index: 5.33 Not fully reversible in 14 days Corrosive to skin.

Serious eye damage/irritation

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Serious eye damage/irritation Dose: 0.1 mL, 6 days, Rabbit Single application only. Causes serious eye damage.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Reproductive toxicity

Reproductive toxicity - fertility Three-generation study - NOAEL 350 mg/kg/day, Oral, Rat P, F1 Read-across data.

Reproductive toxicity - development Developmental toxicity: - NOAEL: 300 mg/kg, Oral, Rat Read-across data.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 300 mg/kg/day, Oral, Rat Read-across data.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >52 mg/l, Inhalation, Rat

Skin corrosion/irritation

Animal data Dose: 500 mg, 4 hours, Rabbit Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 100 mg, 24 hours, Rabbit Causes serious eye damage.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Reproductive toxicity

Reproductive toxicity - development Maternal toxicity: - NOAEL: 2 mg/kg/day, Oral, Mouse

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

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Skin corrosion/irritation

Animal data Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Reproductive toxicity

Reproductive toxicity - development Developmental toxicity:, Maternal toxicity: - NOAEL: >1000 mg/kg/day, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL >750 mg/kg/day, Oral, Rat

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.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.67 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.9 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: 235 mg/l, *Pseudokirchneriella subcapitata*

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 72 days: 0.23 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 1.18 mg/l, *Daphnia magna*

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 4.2 mg/l, *Brachydanio rerio* (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 4.53 mg/l, *Ceriodaphnia dubia*

Acute toxicity - aquatic plants EC₅₀, 72 hours: 5.2 mg/l, *Skeletonema costatum*

Chronic aquatic toxicity

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Chronic toxicity - aquatic invertebrates NOEC, 21 days: 6.3 mg/l, Daphnia magna

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2.4 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 24 hours: 18.6 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.07 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.

Ecological information on ingredients.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Biodegradation Water - Degradation 94%: 28 days
The substance is readily biodegradable.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Biodegradation The substance is readily biodegradable.

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Biodegradation The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Bioaccumulative potential BCF: ≥2 - ≤1000, Pimephales promelas (Fat-head Minnow)

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Bioaccumulative potential BCF: 70.8, Calculation method.

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Bioaccumulative potential BCF: 65.36, Calculation method.

12.4. Mobility in soil

Mobility The product is soluble in water.

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Ecological information on ingredients.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Mobility Miscible with water.

Surface tension 35.4 mN/m @ 20°C

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Henry's law constant 0.068 Pa m³/mol @ °C Calculation method.

Surface tension 36.1 mN/m @ 20°C

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Henry's law constant 0 Pa m³/mol @ 25°C Calculation method.

Surface tension 27.7 mN/m @ 24.5°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.

Ecological information on ingredients.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

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

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

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

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

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

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

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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.

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.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: 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.

Armor All® Shield Snow Foam Car Wash

Classification procedures according to Regulation (EC) 1272/2008	Skin Irrit. 2 - H315, Eye Dam. 1 - H318: Calculation method.
Revision comments	This is the first issue.
Revision date	10/07/2020
SDS number	1442
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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