

# SAFETY DATA SHEET Armor All® Shield Snow Foam Car Wash

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

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

## 1.1. Product identifier

Product name Armor All® Shield 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 Product information has been submitted to the UK National Poisons Information Service

**number** (NPIS) and is accessible to medical health professionals.

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

**Health hazards** 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.

## Armor All® Shield Snow Foam Car Wash

**Precautionary statements** P102 Keep out of reach of children.

P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/ doctor.

Supplemental label

information

Contains a preservative (IODOPROPYNYL BUTYLCARBAMATE, DMDM HYDANTOIN) to

control microbial deterioration.

May produce an allergic reaction.

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

P264 Wash contaminated skin thoroughly after handling.

**statements** P362+P364 Take off contaminated clothing and wash it before reuse.

#### 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%

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,

1 - < 2.5%

sodium salts

CAS number: —

EC number: 931-534-0

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-

1 - < 2.5%

bis(hydroxyethyl)

CAS number: — EC number: 931-329-6

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.

**Skin contact** Irritating to skin. Redness.

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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

# **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 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all

ignition sources if safe to do so. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. No smoking,

sparks, flames or other sources of ignition near spillage. Eliminate all ignition sources if safe to do so. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Use only non-sparking tools. Containers with collected spillage

must be properly labelled with correct contents and hazard symbol.

## 6.4. Reference to other sections

Reference to other sections See Section 11 for additional information on health hazards. For waste disposal, see Section

13.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in

Section 8 of this safety data sheet. Avoid contact with eyes. Keep away from heat, sparks and

open flame. Provide adequate ventilation.

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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/m<sup>3</sup>

#### 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/cm<sup>2</sup>

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

# Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS: 68891-38-3)

**DNEL** Workers - Dermal; Long term systemic effects: 2750 mg/kg

Workers - Inhalation; Long term systemic effects: 175 mg/m³
General population - Oral; Long term systemic effects: 15 mg/kg
General population - Dermal; Long term systemic effects: 1650 mg/kg
General population - Inhalation; Long term systemic effects: 52 mg/m³

PNEC Fresh water; 0.24 mg/l

marine water; 0.024 mg/l

Sediment (Freshwater); 0.917 mg/kg Sediment (Marinewater); 0.092 mg/kg

STP; 10000 mg/l Soil; 7.5 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)

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**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/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/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/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.

Eve/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Do not smoke in work area. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked.

Environmental exposure controls

Keep container tightly sealed when not in use.

## SECTION 9: Physical and chemical properties

## Armor All® Shield Snow Foam Car Wash

## 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Violet.

Odour Fresh.

Odour threshold Not determined.

pH (concentrated solution): 9 - 10

Melting point Not relevant.

Initial boiling point and rangeNot determined.Flash pointNot determined.Evaporation rateNot determined.

Flammability (solid, gas) Not relevant.

Upper/lower flammability or

explosive limits

**Evaporation factor** 

Not relevant.

Not determined.

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.

## 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

Will not polymerise.

reactions

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.

10.6. Hazardous decomposition products

Hazardous decomposition

None at ambient temperatures. Thermal decomposition or combustion products may include

the following substances: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

products

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

**ATE oral (mg/kg)** 38,481.68

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) 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

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Acute toxicity oral (LD₅o

mg/kg)

1,470.0

Species Rat

Notes (oral LD<sub>50</sub>) Harmful if swallowed.

**ATE oral (mg/kg)** 1,470.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >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

Serious eve

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

damage/irritation
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 -

Three-generation study - NOAEL 350 mg/kg/day, Oral, Rat P, F1 Read-across

data

Reproductive toxicity -

development

fertility

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 LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> >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** Dose: 100 mg, 24 hours, Rabbit Causes serious eye damage.

damage/irritation

Skin sensitisation

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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 LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Animal data Irritating to skin.

Serious eye damage/irritation

**Serious eye** Causes serious eye damage.

damage/irritation

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 - De

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

EC<sub>50</sub>, 48 hours: 2.9 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 235 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

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

life stage

Chronic toxicity - aquatic NO

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 LC<sub>50</sub>, 96 hours: 4.2 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 4.53 mg/l, Ceriodaphnia dubia

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 5.2 mg/l, Skeletonema costatum

Chronic aquatic toxicity

Chronic toxicity - aquatic

NOEC, 21 days: 6.3 mg/l, Daphnia magna

invertebrates

## 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

EC₅o, 48 hours: 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 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 The Detergents Regulations (as amended).

## 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.

## Armor All® Shield Snow Foam Car Wash

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.

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

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

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

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

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

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

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

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

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#### 12.6. Other adverse effects

Other adverse effects Not determined.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

Disposal methods Waste should not be disposed of untreated to the sewer unless fully compliant with the

requirements of the local water authority.

## SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

## 14.1. UN number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

## Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

Not applicable.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations EH40/2005 Workplace exposure limits.

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

(Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

## Armor All® Shield Snow Foam Car Wash

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.

Classification procedures according to SI 2019 No. 720

Skin Irrit. 2 - H315, Eye Dam. 1 - H318: Calculation method.

Revision comments Section 15: Regulatory information // 15.1. Safety, health and environmental

regulations/legislation specific for the substance or mixture.

Revision date 18/08/2021

Revision 2

Supersedes date 01/04/2021

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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