

### SAFETY DATA SHEET Armor All® Car Wash Speed Dry

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® Car Wash Speed Dry   |  |
| Product number  | 25001   |  |
| 1.2. Relevant identified uses of  | of the substance or mixture and uses advised against  |  |
| Identified uses   | Auto shampoo.   |  |
| Uses advised against  | No specific uses advised against are identified.  |  |
| 1.3. Details of the supplier of t   | the safety data sheet   |  |
| Supplier  | Energizer Trading Ltd<br>Sword House<br>Totteridge Road<br>High Wycombe<br>HP13 6DG<br>UK<br>Tel: +44 845 602 1995<br>euregulatory@energizer.com                        |  |
| 1.4. Emergency telephone nu   | mber  |  |
| Emergency telephone   | +44 1495 350234<br>Monday - Thursday: 0830 - 1700<br>Friday: 0830 - 1530  |  |
| National emergency telephone<br>number  | <ul> <li>Product information has been submitted to the UK National Poisons Information Service<br/>(NPIS) and is accessible to medical health professionals.</li> </ul> |  |
| SECTION 2: Hazards identification   |   |  |
| 2.1. Classification of the substance or mixture                                   |   |  |
| Classification (SI 2019 No. 72  |   |  |
| 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.<br>H412 Harmful to aquatic life with long lasting effects.  |  |
| Precautionary statements  | P102 Keep out of reach of children.<br>P501 Dispose of contents/ container in accordance with national regulations.   |  |
| Supplemental label information  | Contains a preservative (IODOPROPYNYL BUTYLCARBAMATE, DMDM HYDANTOIN) to control microbial deterioration.<br>May produce an allergic reaction.                          |  |

| Detergent labelling | < 5% anionic surfactants, < 5% non-ionic surfactants, < 5% perfumes, Contains D- |
|---------------------|--|
|                     | LIMONENE, DMDM HYDANTOIN, IODOPROPYNYL BUTYLCARBAMATE                            |

Supplementary precautionary P273 Avoid release to the environment. statements

### 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                                     | 3.2. Mixtures               |              |
| Sodium dodecylbenzenesulfonate                    |                             | 1 - <2.5%    |
| CAS number: 25155-30-0                            | EC number: 246-680-4        |              |
| Classification                                    |                             |              |
| Acute Tox. 4 - H302                               |                             |              |
| Acute Tox. 4 - H312                               |                             |              |
| Eye Irrit. 2 - H319                               |                             |              |
| d-Limonene  |                             | 0.25 - <0.5% |
| CAS number: 5989-27-5                             | EC number: 227-813-5        |              |
| M factor (Acute) = 1                              |                             |              |
| Classification                                    |                             |              |
| Flam. Liq. 3 - H226                               |                             |              |
| Skin Irrit. 2 - H315                              |                             |              |
| Skin Sens. 1 - H317                               |                             |              |
| Asp. Tox. 1 - H304                                |                             |              |
| Aquatic Acute 1 - H400                            |                             |              |
| Aquatic Chronic 3 - H412                          |                             |              |
| propan-2-ol                                       |                             | <0.025%      |
| CAS number: 67-63-0                               | EC number: 200-661-7        |              |
| Classification                                    |                             |              |
| Flam. Liq. 2 - H225                               |                             |              |
| Eye Irrit. 2 - H319                               |                             |              |
| STOT SE 3 - H336                                  |                             |              |
| The full text for all hazard statements           | is displayed in Section 16. |              |
| SECTION 4: First aid measures                     |                             |              |

| 4.1. Description of first aid measures |  |  |
|--|--|--|
|  |  |  |
| 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.<br>Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs,<br>the head should be kept low so that vomit does not enter the lungs. Get medical attention if<br>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.<br>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   | May cause discomfort if swallowed.  |  |
| Skin contact  | Prolonged skin contact may cause redness and irritation.  |  |
| Eye contact   | May cause irritation.   |  |
| 4.3. Indication of any immediat                           | e medical attention and special treatment needed  |  |
| Notes for the doctor                                      | Treat symptomatically. Keep affected person under observation.  |  |
| SECTION 5: Firefighting measure                           | ures  |  |
| 5.1. Extinguishing media                                  |   |  |
| Suitable extinguishing media                              | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-<br>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 fro                          | m the substance or mixture  |  |
| Specific hazards  | Containers can burst violently or explode when heated, due to excessive pressure build-up.  |  |
| Hazardous combustion<br>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<br>firefighting                 | Use water to keep fire exposed containers cool and disperse vapours.  |  |
| Special protective equipment<br>for firefighters          | Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-<br>contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's<br>clothing will provide a basic level of protection for chemical incidents.  |  |
| SECTION 6: Accidental release measures                    |   |  |
| 6.1. Personal precautions, prot                           | ective 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.   |  |
| 5.3. Methods and material for containment and cleaning up |   |  |

| Methods for cleaning up<br>6.4. Reference to other section | 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.  |
|--|---|
| Reference to other sections                                | See Section 11 for additional information on health hazards. For waste disposal, see Section 13.  |
| SECTION 7: Handling and st                                 | orage   |
| 7.1. Precautions for safe hand                             | dling   |
| 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                           | ge, 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 contro                                 | Is/Personal protection  |
|  | iour TWA): WEL 400 ppm 999 mg/m³<br>-minute): WEL 500 ppm 1250 mg/m³<br>Limit.  |
|  | Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)  |
| DNEL   | Workers - Inhalation; Long term systemic effects: 73.4 mg/m <sup>3</sup><br>Workers - Dermal; Long term systemic effects: 4.16 mg/kg/day<br>Workers - Dermal; Long term local effects: 0.09 mg/cm <sup>2</sup><br>General population - Inhalation; Long term systemic effects: 21.73 mg/m <sup>3</sup><br>General population - Dermal; Long term systemic effects: 2.5 mg/kg/day<br>General population - Dermal; Long term local effects: 0.056 mg/cm <sup>2</sup><br>General population - Oral; Long term systemic effects: 6.25 mg/kg/day |
| PNEC   | Fresh water; 0.007 mg/l<br>marine water; 0.001 mg/l<br>STP; 830 mg/l<br>Sediment (Freshwater); 0.195 mg/kg<br>Sediment (Marinewater); 0.019 mg/kg   |

Sediment (Marinewater); 0.019 mg/kg Soil; 0.035 mg/kg

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

| DNEL          | Workers - Inhalation; Long term systemic effects: 152.22 mg/m <sup>3</sup><br>Workers - Dermal; Long term systemic effects: 2158.33 mg/kg/day<br>General population - Inhalation; Long term systemic effects: 45.04 mg/m <sup>3</sup><br>General population - Dermal; Long term systemic effects: 1295 mg/kg/day<br>General population - Oral; Long term systemic effects: 12.95 mg/kg/day |
|---------------|--|
| PNEC          | Fresh water; 0.024 mg/l<br>Fresh water, Intermittent release; 0.02 mg/l<br>marine water; 0.002 mg/l<br>STP; 4 mg/l<br>Sediment (Freshwater); 0.767 mg/kg<br>Sediment (Marinewater); 0.077 mg/kg<br>Soil; 1.21 mg/kg  |
| Alcoho        | ls, C12-14, ethoxylated, sulfates, sodium salts (CAS: 68891-38-3)  |
| DNEL          | Workers - Dermal; Long term systemic effects: 2750 mg/kg<br>Workers - Inhalation; Long term systemic effects: 175 mg/m <sup>3</sup><br>General population - Oral; Long term systemic effects: 15 mg/kg<br>General population - Dermal; Long term systemic effects: 1650 mg/kg<br>General population - Inhalation; Long term systemic effects: 52 mg/m <sup>3</sup>                         |
| PNEC          | Fresh water; 0.24 mg/l<br>marine water; 0.024 mg/l<br>Sediment (Freshwater); 0.917 mg/kg<br>Sediment (Marinewater); 0.092 mg/kg<br>STP; 10000 mg/l<br>Soil; 7.5 mg/kg  |
|               | propan-2-ol (CAS: 67-63-0)   |
| DNEL          | Workers - Inhalation; Long term systemic effects: 500 mg/m <sup>3</sup><br>Workers - Dermal; Long term systemic effects: 888 mg/kg/day<br>General population - Inhalation; Long term systemic effects: 89 mg/m <sup>3</sup><br>General population - Dermal; Long term systemic effects: 319 mg/kg/day<br>General population - Oral; Long term systemic effects: 26 mg/kg/day               |
| PNEC          | <ul> <li>Fresh water; 140.9 mg/l</li> <li>marine water; 140.9 mg/l</li> <li>STP; 2251 mg/l</li> <li>Sediment (Freshwater); 552 mg/kg</li> <li>Sediment (Marinewater); 552 mg/kg</li> <li>Soil; 28 mg/kg</li> <li>Oral; 160 mg/kg</li> </ul>  |
| sure controls |  |
|               |  |

#### 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<br>a risk assessment indicates skin contact is possible. The most suitable glove should be<br>chosen in consultation with the glove supplier/manufacturer, who can provide information<br>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

| 9.1. Information on basic physical and chemical properties |                                  |  |
|--|----------------------------------|--|
| Appearance   | Liquid.                          |  |
| Odour  | Citrus.                          |  |
| Odour threshold  | Not determined.                  |  |
| рН   | pH (concentrated solution): 8.15 |  |
| Melting point  | Not relevant.                    |  |
| Initial boiling point and range                            | Not determined.                  |  |
| Flash point  | Not determined.                  |  |
| 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   | Not determined.                  |  |
| Bulk density   | Not determined.                  |  |
| Solubility(ies)  | Soluble in water.                |  |
| Partition coefficient                                      | Not determined.                  |  |
| Auto-ignition temperature                                  | Not relevant.                    |  |
| Decomposition Temperature                                  | Not relevant.                    |  |

| Viscosity  | 175 cSt @ 40°C   |  |
|--|--|--|
| 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 rea  | activity   |  |
| 10.1. Reactivity   |  |  |
| Reactivity   | There are no known reactivity hazards associated with this product.  |  |
| 10.2. Chemical stability   |  |  |
| Stability  | Stable at normal ambient temperatures and when used as recommended.  |  |
| 10.3. Possibility of hazardous   | reactions  |  |
| Possibility of hazardous reactions   | Will not polymerise.   |  |
| 10.4. Conditions to avoid  |  |  |
| Conditions to avoid  | Avoid excessive heat for prolonged periods of time.  |  |
| 10.5. Incompatible materials   |  |  |
| Materials to avoid   | No specific material or group of materials is likely to react with the product to produce a hazardous situation.   |  |
| 10.6. Hazardous decomposition products   |  |  |
| 10.6. Hazardous decomposition  | on products  |  |
| 10.6. Hazardous decomposition<br>Hazardous decomposition<br>products   | on products<br>None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.   |  |
| Hazardous decomposition  | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.   |  |
| Hazardous decomposition products   | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.   |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral   | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation ical effects  |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )   | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.  formation ical effects Based on available data the classification criteria are not met.  |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral   | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation ical effects  |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal  | None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.<br>formation<br>ical effects<br>Based on available data the classification criteria are not met.<br>21,008.4   |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )  | None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.<br>formation<br>ical effects<br>Based on available data the classification criteria are not met.   |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )<br>ATE dermal (mg/kg)  | None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.<br>formation<br>ical effects<br>Based on available data the classification criteria are not met.<br>21,008.4<br>Based on available data the classification criteria are not met.   |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )  | None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.<br>formation<br>ical effects<br>Based on available data the classification criteria are not met.<br>21,008.4<br>Based on available data the classification criteria are not met.   |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )<br>ATE dermal (mg/kg)<br>Acute toxicity - inhalation<br>Notes (inhalation LC <sub>50</sub> )<br>Skin corrosion/irritation                              | None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.<br>formation<br>ical effects<br>Based on available data the classification criteria are not met.<br>21,008.4<br>Based on available data the classification criteria are not met.<br>46,218.49<br>Based on available data the classification criteria are not met.  |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )<br>ATE dermal (mg/kg)<br>Acute toxicity - inhalation<br>Notes (inhalation LC <sub>50</sub> )<br>Skin corrosion/irritation<br>Skin corrosion/irritation | None at ambient temperatures. Thermal decomposition or combustion products may include<br>the following substances: Oxides of carbon. Oxides of nitrogen.<br>formation<br>ical effects<br>Based on available data the classification criteria are not met.<br>21,008.4<br>Based on available data the classification criteria are not met.<br>46,218.49  |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )<br>ATE dermal (mg/kg)<br>Acute toxicity - inhalation<br>Notes (inhalation LC <sub>50</sub> )<br>Skin corrosion/irritation                              | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.         formation         ical effects         Based on available data the classification criteria are not met.         21,008.4         Based on available data the classification criteria are not met.         46,218.49         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met. |  |
| Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicolog<br>Acute toxicity - oral<br>Notes (oral LD <sub>50</sub> )<br>ATE oral (mg/kg)<br>Acute toxicity - dermal<br>Notes (dermal LD <sub>50</sub> )<br>ATE dermal (mg/kg)<br>Acute toxicity - inhalation<br>Notes (inhalation LC <sub>50</sub> )<br>Skin corrosion/irritation<br>Skin corrosion/irritation | None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.         formation         ical effects         Based on available data the classification criteria are not met.         21,008.4         Based on available data the classification criteria are not met.         46,218.49         Based on available data the classification criteria are not met.         Based on available data the classification criteria are not met. |  |

| 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 - fertilit  | <b>y</b> 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.  |
|   | Sodium dodecylbenzenesulfonate  |
| Acute toxicity -  | oral  |
| Notes (oral LD  | Acute Tox. 4 - H302 cATpE: Converted acute toxicity point estimate.   |
| ATE oral (mg/k  | <b>g)</b> 500.0   |
| Acute toxicity -  | dermal  |
| Notes (dermal   | <b>LD50)</b> Acute Tox. 4 - H312 cATpE: Converted acute toxicity point estimate.  |
| ATE dermal (m   | <b>ig/kg)</b> 1,100.0   |
| Serious eye da  | mage/irritation   |
| Serious eye<br>damage/irritatio   | Eye Irrit. 2 - H319<br>on   |
|   | d-Limonene  |
| A   |   |
|   | oral  |
| Acute toxicity -  |   |
| Notes (oral LD  | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> </ul>  |
| Notes (oral LD<br>Skin corrosion/   | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> <li>irritation</li> </ul>  |
| Notes (oral LD<br>Skin corrosion/<br>Animal data  | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> <li>irritation</li> <li>Irritating to skin. REACH dossier information.</li> </ul>  |
| Notes (oral LD<br>Skin corrosion/<br>Animal data<br>Serious eye da  | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> <li>irritation</li> <li>Irritating to skin. REACH dossier information.</li> <li>image/irritation</li> </ul>  |
| Notes (oral LD<br>Skin corrosion/<br>Animal data  | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> <li>irritation         Irritating to skin. REACH dossier information.     </li> <li>image/irritation         Dose: 0.1 ml, 7 days, Rabbit REACH dossier information. Not irritating.     </li> </ul>                             |
| Notes (oral LD<br>Skin corrosion/<br>Animal data<br>Serious eye da<br>Serious eye   | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> <li>irritation</li> <li>Irritating to skin. REACH dossier information.</li> <li>image/irritation</li> <li>Dose: 0.1 ml, 7 days, Rabbit REACH dossier information. Not irritating.</li> </ul>                                     |
| Notes (oral LDs<br>Skin corrosion/<br>Animal data<br><u>Serious eye da</u><br>Serious eye<br>damage/irritatio             | so) > 2000 mg/kg Rat REACH dossier information. Read-across data. irritation Irritating to skin. REACH dossier information. image/irritation Dose: 0.1 ml, 7 days, Rabbit REACH dossier information. Not irritating. on   |
| Notes (oral LD<br>Skin corrosion/<br>Animal data<br>Serious eye da<br>Serious eye<br>damage/irritation                    | <ul> <li>&gt; 2000 mg/kg Rat REACH dossier information. Read-across data.</li> <li>irritation         <ul> <li>Irritating to skin. REACH dossier information.</li> <li>image/irritation             <ul></ul></li></ul></li></ul>   |
| Notes (oral LD<br>Skin corrosion/<br>Animal data<br>Serious eye da<br>Serious eye<br>damage/irritatio<br>Skin sensitisati | so) > 2000 mg/kg Rat REACH dossier information. Read-across data. irritation Irritating to skin. REACH dossier information. image/irritation Dose: 0.1 ml, 7 days, Rabbit REACH dossier information. Not irritating. on on on on Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. |

| Genotoxicity - in vivo  | DNA damage and/or repair: Negative. REACH dossier information.                                       |  |
|---|--|--|
| Carcinogenicity   |  |  |
| IARC carcinogenicity  | IARC Group 3 Not classifiable as to its carcinogenicity to humans.                                   |  |
| Specific target organ toxicity - repeated exposure                                  |  |  |
| STOT - repeated exposure  | NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information.   |  |
| Aspiration hazard   |  |  |
| Aspiration hazard   | 1.003 cSt @ 25°C/77°F REACH dossier information. Read-across data. Asp. Tox. 1<br>- H304             |  |
|   | propan-2-ol  |  |
| Acute toxicity - oral   |  |  |
| Acute toxicity oral (LD₅₀<br>mg/kg)   | 5,840.0  |  |
| Species   | Rat  |  |
| Notes (oral LD <sub>50</sub> )  | REACH dossier information.   |  |
| ATE oral (mg/kg)  | 5,840.0  |  |
| Skin corrosion/irritation   |  |  |
| Animal data   | Primary dermal irritation index: 0/4 Erythema/eschar score: Oedema score: REACH dossier information. |  |
| Serious eye damage/irritat  | ion  |  |
| Serious eye<br>damage/irritation  | Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Irritating.                                |  |
| Skin sensitisation  |  |  |
| Skin sensitisation  | Buehler test - Guinea pig: Not sensitising. REACH dossier information.                               |  |
| Germ cell mutagenicity  |  |  |
| Genotoxicity - in vitro   | Gene mutation: Negative. REACH dossier information.  |  |
| Genotoxicity - in vivo  | Chromosome aberration: Negative. REACH dossier information.  |  |
| Carcinogenicity   |  |  |
| Carcinogenicity   | NOEL 5000 ppm, Inhalation, Rat REACH dossier information.  |  |
| IARC carcinogenicity  | IARC Group 3 Not classifiable as to its carcinogenicity to humans.                                   |  |
| Specific target organ toxici  | ty - single exposure   |  |
| STOT - single exposure  | STOT SE 3 - H336 May cause drowsiness or dizziness.  |  |
| Specific target organ toxicity - repeated exposure                                  |  |  |
| STOT - repeated exposure NOAEC 5000 ppm, Inhalation, Rat REACH dossier information. |  |  |
| 2: Ecological information   |  |  |
|   |  |  |

Ecotoxicity

Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

#### d-Limonene

| Acute aquatic toxicity                           |  |
|--|--|
| LE(C)50  | $0.1 < L(E)C50 \le 1$  |
| M factor (Acute)                                 | 1  |
| Acute toxicity - fish                            | LC₅₀, 96 hours: 0.720 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.         |
| Acute toxicity - aquatic<br>invertebrates        | EC₅₀, 48 hours: 0.36 mg/l, Daphnia magna<br>REACH dossier information.                               |
| Acute toxicity - aquatic<br>plants               | EC₅₀, 72 hours: 150 mg/l, Desmodesmus subspicatus<br>REACH dossier information.<br>Read-across data. |
| Acute toxicity -<br>microorganisms               | EC₅₀, 3 hours: 209 mg/l, Activated sludge<br>REACH dossier information.<br>Read-across data.         |
|  | propan-2-ol  |
| Acute aquatic toxicity                           |  |
| Acute toxicity - fish                            | LC₅₀, 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.         |
| Acute toxicity - aquatic<br>invertebrates        | LC₅₀, 24 hours: > 10000 mg/l, Daphnia magna<br>REACH dossier information.                            |
| 12.2. Persistence and degradability              |  |
| Persistence and degradability No data available. |  |

Ecological information on ingredients.

#### d-Limonene

| Phototransformation | Water - Half-life : 0.365 hours<br>REACH dossier information.<br>QSAR  |
|---------------------|--|
| Biodegradation      | Water - Degradation (80%): 28 days<br>REACH dossier information.<br>Read-across data.<br>The substance is readily biodegradable. |

#### propan-2-ol

|                                  | <u> </u>  |  |
|----------------------------------|---|--|
| Biodegradation                   | Water - Degradation (53%): 5 days<br>REACH dossier information.               |  |
| Biological oxygen deman          | <b>d</b> 1.19 - 1.72 g O <sub>2</sub> /g substance REACH dossier information. |  |
| Chemical oxygen demand           | <b>d</b> 2.23 g $O_2/g$ substance REACH dossier information.                  |  |
| 12.3. Bioaccumulative potential  |   |  |
| Bioaccumulative potential No dat | a available on bioaccumulation.   |  |
| Partition coefficient Not de     | termined.   |  |

#### Ecological information on ingredients.

#### d-Limonene

| Bioaccumulative  | e potential BCF: 1022, REACH dossier information. QSAR  |  |
|--|---|--|
| Biodocumulative  |   |  |
| Partition coeffici   | cient log Pow: 4.38 REACH dossier information.  |  |
| 12.4. Mobility in soil   |   |  |
| Mobility   | The product is soluble in water.  |  |
| Ecological information on ing  | jredients.  |  |
|  | d-Limonene  |  |
| Adsorption/desc<br>coefficient   | orption Water - Koc : 1984 REACH dossier information. QSAR  |  |
| 12.5. Results of PBT and vPv   | vB assessment   |  |
| Results of PBT and vPvB<br>assessment  | This product does not contain any substances classified as PBT or vPvB.   |  |
| Ecological information on ing  | jredients.  |  |
|  | d-Limonene  |  |
| Results of PBT assessment  | <b>and vPvB</b> This substance is not classified as PBT or vPvB according to current UK criteria.                                 |  |
| 12.6. Other adverse effects  |   |  |
| Other adverse effects  | Not determined.   |  |
| SECTION 13: Disposal consi   | iderations  |  |
| 13.1. Waste treatment metho  | ods   |  |
| 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 infor  | · · ·   |  |
| SECTION 14: Transport infor<br>General   | · · ·   |  |
| General  | rmation<br>The product is not covered by international regulations on the transport of dangerous goods                            |  |
|  | rmation<br>The product is not covered by international regulations on the transport of dangerous goods                            |  |
| General<br>14.1. UN number<br>Not applicable.  | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).                |  |
| General<br>14.1. UN number<br>Not applicable.<br>14.2. UN proper shipping nar  | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).                |  |
| General<br>14.1. UN number<br>Not applicable.<br>14.2. UN proper shipping nar<br>Not applicable.   | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).                |  |
| General<br>14.1. UN number   | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).                |  |
| General<br><u>14.1. UN number</u><br>Not applicable.<br><u>14.2. UN proper shipping nar</u><br>Not applicable.<br><u>14.3. Transport hazard class</u><br>No transport warning sign rec | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).                |  |
| General<br><u>14.1. UN number</u><br>Not applicable.<br><u>14.2. UN proper shipping nar</u><br>Not applicable.<br><u>14.3. Transport hazard class</u>                                  | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).                |  |

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

| Abbreviations and acronyms<br>used in the safety data sheet | ADR: European Agreement concerning the International Carriage of Dangerous Goods by<br>Road.<br>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.<br>IMDG: International Maritime Dangerous Goods.<br>IATA: International Air Transport Association.<br>ADN: European Agreement concerning the International Carriage of Dangerous Goods by<br>Inland Waterways.<br>ATE: Acute Toxicity Estimate.<br>DNEL: Derived No Effect Level.<br>LC50: Lethal Concentration to 50 % of a test population.<br>LD50: Lethal Dose to 50% of a test population.<br>PBT: Persistent, Bioaccumulative and Toxic substance.<br>vPvB: Very Persistent and Very Bioaccumulative.<br>BCF: Bioconcentration Factor. |
|---|--|
| Revision comments   | Revised classification.  |
| Revision date   | 30/03/2022   |
| Revision  | 18   |
| Supersedes date   | 19/10/2021   |
| SDS number  | 189  |

| Hazard statements in full | <ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H400 Very toxic to aquatic life.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>EUH208 Contains d-Limonene. May produce an allergic reaction.</li> </ul> |
|---------------------------|--|
|                           |  |

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.