

# SAFETY DATA SHEET

## Armor All® Tire Foam

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® Tire Foam		
Product number	47670, 47600, 47500		
1.2. Relevant identified uses	of the substance or mixture and uses advised against		
Identified uses	Enhancing automotive tyres.		
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		
SECTION 2: Hazards identif	cation		
2.1. Classification of the sub	stance or mixture		
Classification (SI 2019 No. 7	20)		
Physical hazards	Aerosol 1 - H222, H229		
Health hazards	Not Classified		
Environmental hazards	Not Classified		
Physicochemical	Containers can burst violently or explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.		
2.2. Label elements			
Hazard pictograms			
Signal word	Danger		

Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated.
Precautionary statements	<ul> <li>P102 Keep out of reach of children.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 Do not spray on an open flame or other ignition source.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</li> </ul>
Supplemental label information	Contains a preservative (IODOPROPYNYL BUTYLCARBAMATE, DMDM HYDANTOIN) to control microbial deterioration. May produce an allergic reaction.
Detergent labelling	5 - < 15% aliphatic hydrocarbons, < 5% non-ionic surfactants, < 5% polycarboxylates, Contains DMDM HYDANTOIN, IODOPROPYNYL BUTYLCARBAMATE

### 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

Hydrocarbons, C3-4-rich, petroleum distillate 5 - <10%		
CAS number: 68512-91-4 EC number: 270-990-9		
Contains <0.1% w/w 1,3-butadie	ne (CAS: 106-99-0).	
Classification		
Flam. Gas 1A - H220		
Press. Gas (Liq.) - H280		
sodium nitrite		0.025 - <0.25%
CAS number: 7632-00-0	EC number: 231-555-9	
M factor (Acute) = 1		
Classification		
Ox. Sol. 2 - H272		
Acute Tox. 3 - H301		
Eye Irrit. 2 - H319		
Aquatic Acute 1 - H400		

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	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

# Armor All® Tire Foam

Ingestion	Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if any discomfort continues.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.	
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	Spray/mists may cause respiratory tract irritation.	
Ingestion	Due to the physical nature of this product, exposure by this route is unlikely.	
Skin contact	Repeated exposure may cause skin dryness or cracking.	
Eye contact	May be slightly irritating to eyes. May cause discomfort.	
4.3. Indication of any immediate medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically. Keep affected person under observation.	
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	om the substance or mixture	
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.	
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 releas	e measures	

6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Risk of explosion.	

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

#### 6.2. Environmental precautions

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

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

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Eliminate all ignition sources if safe to do so. Do not touch or walk into spilled material. Ventilate closed spaces before entering them. Use only non-sparking tools. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

#### 6.4. Reference to other sections

**Reference to other sections** See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

7.1. Precautions for safe handling		
Usage precautions	Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Provide adequate ventilation. Ground/bond container and receiving equipment. Keep away from heat, sparks and open flame.	
Advice on general occupational hygiene	Avoid contact with eyes and prolonged skin contact. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage precautions	Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Take precautionary measures against static discharges.	
Storage class	Flammable compressed gas storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

Occupational exposure limits

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

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup> WEL = Workplace Exposure Limit.

#### 2,2',2"-nitrilotriethanol (CAS: 102-71-6)

DNEL

Workers - Inhalation; Long term systemic effects: 5 mg/m <sup>3</sup>
Workers - Inhalation; Long term local effects: 5 mg/m <sup>3</sup>
Workers - Dermal; Long term systemic effects: 6.3 mg/kg/day
General population - Inhalation; Long term systemic effects: 1.25 mg/m <sup>3</sup>
General population - Inhalation; Long term local effects: 1.25 mg/m <sup>3</sup>
General population - Dermal; Long term systemic effects: 3.1 mg/kg/day
General population - Oral; Long term systemic effects: 13 mg/kg/day

PNEC	Fresh water; 0.32 mg/l marine water; 0.032 mg/l STP; 10 mg/l Sediment (Freshwater); 1.7 mg/kg Sediment (Marinewater); 0.17 mg/kg Soil; 0.151 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 'UKCA'-marked.	
Environmental exposure controls	Keep container tightly sealed when not in use.	
SECTION 9: Physical and che	emical properties	

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	White.
Odour	Characteristic.
Odour threshold	Not determined.
рН	pH (concentrated solution): 7.8 - 8.4
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Evaporation rate	Not determined.
Evaporation factor	Not determined.

Flammability (solid, gas)	Not determined.	
Upper/lower flammability or explosive limits	Not determined.	
Vapour pressure	Not determined.	
Vapour density	Not determined.	
Relative density	1.00 Liquid.	
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. Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	Will not polymerise.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition. Avoid the accumulation of vapours in low or confined areas. Pressurised container: may burst if heated	
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 decompositio	on products	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Decomposition at ambient temperatures may generate the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Acrid smoke or fumes.	
SECTION 11: Toxicological in	formation	

## 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)	Based o	n available data the classification criteria are not met.
ATE oral (mg/kg)	77,253.2	2
Acute toxicity - dermal Notes (dermal LD₅₀)	Based o	n available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation $LC_{50}$ )	Based o	n available data the classification criteria are not met.
Skin corrosion/irritation Skin corrosion/irritation	Based o	n available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Based o	n available data the classification criteria are not met.
Respiratory sensitisation Respiratory sensitisation	Based o	n available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Based o	n available data the classification criteria are not met.
Germ cell mutagenicity Genotoxicity - in vitro	Based o	n available data the classification criteria are not met.
Genotoxicity - in vivo	Based o	n available data the classification criteria are not met.
Carcinogenicity Carcinogenicity	Based o	n available data the classification criteria are not met.
Reproductive toxicity Reproductive toxicity - fertility	Based o	n 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       Not anticipated to present an aspiration hazard, based on chemical structure.		
Toxicological information on in	gredients.	
sodium nitrite		
Acute toxicity - or	al	
Acute toxicity ora mg/kg)	I (LD50	180.0
Species		Rat
Notes (oral LD₅₀)		REACH dossier information.
ATE oral (mg/kg)		180.0
Carcinogenicity		
IARC carcinogen	icity	IARC Group 2A Probably carcinogenic to humans.
SECTION 12: Ecological information		

## SECTION 12: Ecological information

criteria

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### 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.

sodium nitrite

Acute aquatic toxicity	
LE(C)50	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC₅₀, 96 hours: 0.54 - 26.3 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₀, 48 hours: 4.6 mg/l, Daphnia magna EC₅₀, 48 hours: 15.4 mg/l, Daphnia magna EC₁₀₀, 48 hours: > 100 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 72 hours: > 100 mg/l, Desmodesmus subspicatus NOEC, 72 hours: 100 mg/l, Desmodesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC₅₀, 24 hours: 285 mg/l, Spirostomum ambiguum EC₅₀, 48 hours: 281 mg/l, Spirostomum ambiguum REACH dossier information.
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 29 days: 1.05 mg/l, Cyprinus carpio (Common carp) REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 80 days: 9.86 mg/l, Penaeus monodon (Asian tiger shrimp) EC₅₀, 80 days: 114.9 mg/l, Penaeus monodon (Asian tiger shrimp) LC₅₀, 80 days: > 95.6 mg/l, Penaeus monodon (Asian tiger shrimp) REACH dossier information.
12.2. Persistence and degradability	
	actant(s) contained in this product complies(comply) with the biodegradability on the Detergents Regulations (as amended).
12.3. Bioaccumulative potential	

Bioaccumulative potential	No data available on bioaccumulation.	
Partition coefficient	Not determined.	
12.4. Mobility in soil		
Mobility	The product has poor water-solubility.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effects		
Other adverse effects	Not determined.	
SECTION 13: Disposal considerations		

### 13.1. Waste treatment methods

General information

Dispose of waste product or used containers in accordance with local regulations Do not puncture or incinerate, even when empty.

SECTION 14: Transport information	
14.1. UN number	
UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950
14.2. UN proper shipping name	9
Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS
14.3. Transport hazard class(e	s <u>)</u>
ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1
Transmont labors	

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user		
EmS	F-D, S-U	
ADR transport category	2	
Tunnel restriction code	(D)	
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code		

### Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### **SECTION 15: Regulatory information**

National regulations	EH40/2005 Workplace exposure limits.
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	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 used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>IATA: International Air Transport Association.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>DNEL: Derived No Effect Level.</li> <li>LC50: Lethal Concentration to 50 % of a test population.</li> <li>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> <li>BCF: Bioconcentration Factor.</li> </ul>
Classification procedures according to SI 2019 No. 720	Aerosol 1 - H222, H229: Expert judgement.
Revision comments	Revised formulation.
Revision date	21/02/2022
Revision	9
Supersedes date	18/08/2021
SDS number	17
Hazard statements in full	<ul> <li>H220 Extremely flammable gas.</li> <li>H222 Extremely flammable aerosol.</li> <li>H229 Pressurised container: may burst if heated.</li> <li>H272 May intensify fire; oxidiser.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H301 Toxic if swallowed.</li> <li>H319 Causes serious eye irritation.</li> <li>H400 Very toxic to aquatic life.</li> </ul>

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