



SAFETY DATA SHEET

Armor All® Wheel 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® Wheel Foam
Product number 33500

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

Identified uses Automotive foam cleaner.
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 identification

2.1. Classification of the substance or mixture

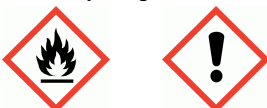
Classification (SI 2019 No. 720)

Physical hazards Aerosol 1 - H222, H229
Health hazards Eye Irrit. 2 - H319
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

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Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P280 Wear eye and face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Detergent labelling	5 - < 15% aliphatic hydrocarbons, < 5% EDTA and salts thereof, < 5% non-ionic surfactants
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling.

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 10 - <25% CAS number: 68512-91-4 EC number: 270-990-9 Contains <0.1% w/w 1,3-butadiene (CAS: 106-99-0).
Classification Flam. Gas 1A - H220 Press. Gas (Liq.) - H280
2-(2-butoxyethoxy)ethanol 2 - <3% CAS number: 112-34-5 EC number: 203-961-6
Classification Eye Irrit. 2 - H319
Dodecyldimethylamine oxide 1 - <2.5% CAS number: 1643-20-5 EC number: 216-700-6 M factor (Acute) = 1
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

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tetrasodium ethylene diamine tetraacetate	1 - <2.5%
CAS number: 64-02-8	EC number: 200-573-9
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Eye Dam. 1 - H318	
STOT RE 2 - H373	

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	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Do not use organic solvents. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	This product is strongly irritating. Prolonged contact may cause redness and/or tearing. May cause discomfort. Pain. Profuse watering of the eyes. Redness.

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

Notes for the doctor	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO ₂). Water spray, fog or mist.
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. Bursting aerosol containers may be propelled from a fire at high speed.
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

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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. 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. Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

Hydrocarbons, C3-4-rich, petroleum distillate

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

2-(2-butoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m³

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m³

WEL = Workplace Exposure Limit.

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

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

8.2. Exposure controls

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid.
Colour	White.
Odour	Hydrocarbons.
Odour threshold	Not determined.
pH	pH (concentrated solution): 10.95 - 11.45 Liquid.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.

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Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid 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.

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

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 information

11.1. Information on toxicological effects

Acute toxicity - oral

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

ATE oral (mg/kg) 43,815.49

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Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (dusts/mists mg/l) 114.01

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Eye Irrit. 2 - H319 Causes serious eye irritation.

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.

Hydrocarbons, C3-4-rich, petroleum distillate

Germ cell mutagenicity

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility One-generation study - NOAEC 10000 ppm, Inhalation, Rat P REACH dossier information.

Reproductive toxicity - development Developmental toxicity: - NOAEC: 10426 ppm, Inhalation, Rat REACH dossier information.

2-(2-butoxyethoxy)ethanol

Acute toxicity - oral

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Acute toxicity oral (LD₅₀ mg/kg) 2,410.0

Species Mouse

ATE oral (mg/kg) 2,410.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 27,640.0

Species Rabbit

ATE dermal (mg/kg) 27,640.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 1 hour, Rabbit Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Eye Irrit. 2 - H319 Causes serious eye irritation.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative.

Reproductive toxicity

Reproductive toxicity - development Maternal toxicity: - NOAEL: 633 mg/kg/day, Oral, Rat

Dodecyldimethylamine oxide

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,064.0

Species Rat

ATE oral (mg/kg) 1,064.0

tetrasodium ethylene diamine tetraacetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,780.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg) 1,780.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) cATpE: Converted acute toxicity point estimate.

ATE inhalation (dusts/mists mg/l) 1.5

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Skin corrosion/irritation

Animal data Dose: 0.5 g, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). REACH dossier information. Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 50 mg, 8 days, Rabbit REACH dossier information. Eye Dam. 1 - H318
Causes serious eye damage.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read-across data.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. REACH dossier information. Read-across data. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Read-across data. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL \geq 500 mg/kg/day, Oral, Rat REACH dossier information. Read-across data. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Multi-generation study - NOAEL \geq 250 mg/kg/day, Oral, Rat P, F1 REACH dossier information. Read-across data. Based on available data the classification criteria are not met.

Reproductive toxicity - development Maternal toxicity: - LOAEL: 1374 mg/kg/day, Oral, Rat REACH dossier information.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

Hydrocarbons, C3-4-rich, petroleum distillate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 49.47 mg/l, Fish
REACH dossier information.
QSAR

2-(2-butoxyethoxy)ethanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1300 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates NOEC, 48 hours: \geq 100 mg/l, Daphnia magna
EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 96 hours: \geq 100 mg/l, Desmodemus subspicatus

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Acute toxicity - microorganisms EC₁₀, 30 minutes: > 1995 mg/l, Activated sludge

Dodecyldimethylamine oxide

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

tetrasodium ethylene diamine tetraacetate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 121 mg/l, Lepomis macrochirus (Bluegill)
LC₁₀₀, 96 hours: 138 mg/l, Lepomis macrochirus (Bluegill)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₀, 24 hours: 310 mg/l, Daphnia magna
EC₅₀, 24 hours: 625 mg/l, Daphnia magna
EC₁₀₀, 24 hours: 1250 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - microorganisms EC₂₀, 30 minutes: > 500 mg/l, Activated sludge
EC₁₀, 30 minutes: > 500 mg/l, Activated sludge
REACH dossier information.
Read-across data.

Acute toxicity - terrestrial EC₅₀, 14 days: 156.46 mg/kg, Eisenia Fetida (Earthworm)
REACH dossier information.
Read-across data.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 35 days: ≥25.7 mg/l, Brachydanio rerio (Zebra Fish)
REACH dossier information.
Read-across data.

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 25 mg/l, Daphnia magna
LOEC, 21 days: 50 mg/l, Daphnia magna
LC₀, 21 days: ≥100 mg/l, Daphnia magna
REACH dossier information.
Read-across data.

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.

Hydrocarbons, C3-4-rich, petroleum distillate

Phototransformation Water - DT₅₀ : 1906 days
REACH dossier information.
Calculation method.

Biodegradation Water - Degradation (100%): 385.5 hours
REACH dossier information.
The substance is readily biodegradable.

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2-(2-butoxyethoxy)ethanol

Biodegradation Water - Degradation (~85%): 28 days
The substance is readily biodegradable.

tetrasodium ethylene diamine tetraacetate

Phototransformation Water - DT₅₀ : 2.12 hours
REACH dossier information.
Read-across data.

Biodegradation Water - Degradation (0 - 20%): 20 days
REACH dossier information.
Read-across data.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Hydrocarbons, C3-4-rich, petroleum distillate

Partition coefficient log Pow: 2.3058 REACH dossier information. QSAR

2-(2-butoxyethoxy)ethanol

Partition coefficient log Pow: 1

tetrasodium ethylene diamine tetraacetate

Bioaccumulative potential BCF: 1.1 - 1.8, Lepomis macrochirus (Bluegill) REACH dossier information.

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.

2-(2-butoxyethoxy)ethanol

Mobility Miscible with water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

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.

Disposal methods Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

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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

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(es)

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

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

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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 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 Aerosol 1 - H222, H229: Expert judgement. Eye Irrit. 2 - H319: Calculation method.

Revision date 01/04/2021

Revision 12

Supersedes date 19/03/2020

SDS number 416

Hazard statements in full H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

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