



SAFETY DATA SHEET

Armor All® Shield Tire Glaze

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 Tire Glaze

Product number 21500

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

National emergency telephone number Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

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

Armor All® Shield Tire Glaze

Hazard pictograms



Signal word Danger

Hazard statements H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.

Precautionary statements 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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplemental label information EUH066 Repeated exposure may cause skin dryness or cracking.

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, C11-C14, isoalkanes, cyclics, <2% aromatics 50 - 75% CAS number: — EC number: 927-285-2
Classification Asp. Tox. 1 - H304
Hydrocarbons, C3-4-rich, petroleum distillate 7.5 - <10% 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
dimethyl ether 2.5 - <3.5% CAS number: 115-10-6 EC number: 204-065-8 Substance with National workplace exposure limits.
Classification Flam. Gas 1A - H220 Press. Gas (Liq.) - H280

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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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.
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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. 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.

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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. 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/m³

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

dimethyl ether

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m³

WEL = Workplace Exposure Limit.

dimethyl ether (CAS: 115-10-6)

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DNEL	Workers - Inhalation; Long term systemic effects: 1894 mg/m ³ General population - Inhalation; Long term systemic effects: 471 mg/m ³
PNEC	- Fresh water; 0.155 mg/l - marine water; 0.016 mg/l - STP; 160 mg/l - Sediment (Freshwater); 0.681 mg/kg - Sediment (Marinewater); 0.069 mg/kg - Soil; 0.045 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 chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Clear.
Odour	Solvent.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not relevant.
Initial boiling point and range	Not relevant.

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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	Not determined.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

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

Conditions to avoid	Avoid 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
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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.
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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 (CO ₂). Carbon monoxide (CO). Acrid smoke or fumes.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity - oral

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

Acute toxicity - dermal

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

Acute toxicity - inhalation

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

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

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.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Toxicological information on ingredients.

Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ : > 15000 mg/kg, Rat, Read-across data. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ : ≥ 3160 mg/kg, Rabbit, Read-across data. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

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Notes (inhalation LC₅₀)	LC ₅₀ : >4951 mg/m ³ , Vapour, Rat 4 hours Read-across data. Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Read-across data.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 1 second, Rabbit Not irritating. REACH dossier information. Read-across data.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read-across data.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Read-across data.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Read-across data.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEC ≥ 2200 mg/m ³ , Inhalation, Rat REACH dossier information. Read-across data.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - NOAEL ≥ 3000 mg/kg/day, Oral, Rat F1 REACH dossier information. Read-across data.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: ≥ 5220 mg/m ³ , Inhalation, Rat REACH dossier information.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEC > 10400 mg/m ³ , Inhalation, Rat REACH dossier information. Read-across data.
<u>Aspiration hazard</u>	
Aspiration hazard	1.75 cSt @ 25°C Asp. Tox. 1 - H304
<u>Hydrocarbons, C3-4-rich, petroleum distillate</u>	
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Reproductive toxicity</u>	
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.
<u>dimethyl ether</u>	
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ gases ppmV)	164,000.0
Species	Rat

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Notes (inhalation LC₅₀)	REACH dossier information.
ATE inhalation (gases ppm)	164,000.0
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	Genome mutation: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 2.5 %, Inhalation, Rat REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	- NOAEL 2.5 %, Inhalation, Rat REACH dossier information.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 40000 ppm, Inhalation, Rat REACH dossier information.

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.
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Ecological information on ingredients.

Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

Acute aquatic toxicity

Acute toxicity - fish	LL ₅₀ , 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information. Read-across data.
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Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hours: > 1000 mg/l, Daphnia magna REACH dossier information. Read-across data.
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Acute toxicity - aquatic plants	EL ₅₀ , 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata REACH dossier information. Read-across data.
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Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOELR, 28 days: 0.103 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information. Calculation method.
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Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 1 mg/l, Daphnia magna REACH dossier information. Calculation method.
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Hydrocarbons, C3-4-rich, petroleum distillate

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 49.47 mg/l, Fish REACH dossier information. QSAR
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dimethyl ether

Acute aquatic toxicity

Acute toxicity - fish	NOEC, 96 hours: ≥ 4100 mg/l, Poecilia reticulata (Guppy) LC ₅₀ , 96 hours: > 4100 mg/l, Poecilia reticulata (Guppy) REACH dossier information.
Acute toxicity - aquatic invertebrates	NOEC, 48 hours: ≥ 4400 mg/l, Daphnia magna EC ₅₀ , 48 hours: > 4400 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 154.917 mg/l, Algae QSAR REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

Biodegradation	Water - Degradation (61.3%): 18 days Water - Degradation (77.6%): 28 days REACH dossier information. The substance is readily biodegradable.
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Hydrocarbons, C3-4-rich, petroleum distillate

Phototransformation	Water - DT ₅₀ : 1906 days REACH dossier information. Calculation method.
Biodegradation	Water - Degradation (100%): 385.5 hours REACH dossier information. The substance is readily biodegradable.

dimethyl ether

Biodegradation	Water - Degradation (5%): 28 days REACH dossier information.
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12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

Partition coefficient	Scientifically unjustified. REACH dossier information.
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Hydrocarbons, C3-4-rich, petroleum distillate

Partition coefficient	log Pow: 2.3058 REACH dossier information. QSAR
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dimethyl ether

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Partition coefficient log Pow: 0.07 QSAR REACH dossier information.

12.4. Mobility in soil

Mobility The product has poor water-solubility.

Ecological information on ingredients.

Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

Mobility The product has poor water-solubility.

Surface tension 26 mN/m @ 25°C

12.5. Results of PBT and vPvB assessment

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

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

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

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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

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

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

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.

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Revision date	01/04/2021
Revision	3
Supersedes date	19/03/2020
SDS number	861
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. H304 May be fatal if swallowed and enters airways.

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