

SAFETY DATA SHEET Armor All® Shield for Glass

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 for Glass

Product number 20200

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

Identified uses Repels water from automotive windscreens.

Uses advised againstNo specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Energizer Trading Ltd

Sword House Totteridge Road High Wycombe HP13 6DG

UK

Tel: +44 845 602 1995 euregulatory@energizer.com

1.4. Emergency telephone number

Emergency telephone +44 1495 350234

Monday - Thursday: 0830 - 1700

Friday: 0830 - 1530

National emergency telephone Product information has been submitted to the UK National Poisons Information Service

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

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

2.2. Label elements

Hazard pictograms





Armor All® Shield for Glass

Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

P233 Keep container tightly closed. P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated area.

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

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

Supplemental label

information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains propan-2-ol

Supplementary precautionary

P280 Wear eye protection.

statements

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

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

propan-2-ol 50 - 100%

CAS number: 67-63-0 EC number: 200-661-7

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

Sulphuric acid 0.5 - <1%

CAS number: 7664-93-9 EC number: 231-639-5

Classification

Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Armor All® Shield for Glass

General information Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing.

Inhalation If throat irritation or coughing persists, proceed as follows. Remove person to fresh air and

keep comfortable for breathing. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if

symptoms are severe or persist.

Skin contact Remove contaminated clothing and rinse skin thoroughly with water. Continue to rinse for at

least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention if symptoms are severe or persist after washing.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation A single exposure may cause the following adverse effects: Headache. Nausea, vomiting.

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic

effect.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Prolonged skin contact may cause redness and irritation. Prolonged contact may cause

dryness of the skin.

Eye contact May cause discomfort. Irritating to eyes.

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 from the substance or mixture

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

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

Use water to keep fire exposed containers cool and disperse vapours.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's

clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Armor All® Shield for Glass

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 precautionsRead 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, 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

propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

Sulphuric acid

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m³ mist

WEL = Workplace Exposure Limit.

propan-2-ol (CAS: 67-63-0)

DNEL Workers - Inhalation; Long term systemic effects: 500 mg/m³

Workers - Dermal; Long term systemic effects: 888 mg/kg/day

General population - Inhalation; Long term systemic effects: 89 mg/m³ General population - Dermal; Long term systemic effects: 319 mg/kg/day General population - Oral; Long term systemic effects: 26 mg/kg/day

PNEC - Fresh water; 140.9 mg/l

- marine water; 140.9 mg/l

- STP; 2251 mg/l

Sediment (Freshwater); 552 mg/kgSediment (Marinewater); 552 mg/kg

Soil; 28 mg/kgOral; 160 mg/kg

Sulphuric acid (CAS: 7664-93-9)

DNEL Workers - Inhalation; Long term local effects: 0.05 mg/m³

Workers - Inhalation; Short term local effects: 0.1 mg/m³

PNEC Fresh water; 0.003 mg/l

marine water; 0 mg/l STP; 8.8 mg/l

Sediment (Freshwater); 0.002 mg/kg Sediment (Marinewater); 0.002 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

CCLIOIT

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 Clear liquid.

Colour Colourless.

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Odour Alcoholic.

Odour threshold Not determined.

pH pH (concentrated solution): 0.28

Melting point Not relevant.

Initial boiling point and range Not determined.

Flash point 13°C

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 0.7987

Bulk density Not determined.

Partition coefficient Not determined.

Auto-ignition temperature Not relevant.

Decomposition Temperature Not relevant.

Viscosity Not determined.

Explosive properties Not considered to be explosive.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

Will not polymerise.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

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

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

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

products

Notes (oral LD₅o) 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 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 vitroBased 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 May cause drowsiness or dizziness.

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.

propan-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,840.0

mg/kg)

Species Rat

Notes (oral LD₅₀) REACH dossier information.

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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/irritation

Serious eye

Dose: 0.1 ml, 1 second, Rabbit REACH dossier information. Irritating.

damage/irritation

Skin sensitisation

Skin sensitisation Buehler test - Guinea pig: Not sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitroGene 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 toxicity - 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.

Sulphuric acid

Skin corrosion/irritation

Animal data Skin Corr. 1A - H314

Serious eye damage/irritation

Serious eye Eye Dam

damage/irritation

Eye Dam. 1 - H318

Reproductive toxicity

Reproductive toxicity -

Developmental toxicity: - NOAEC: 19.3 mg/m³, Inhalation, Rabbit REACH dossier

development 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.

Ecological information on ingredients.

propan-2-ol

Acute aquatic toxicity

Acute toxicity - fish LC₅o, 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

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Acute toxicity - aquatic

invertebrates

LC₅₀, 24 hours: > 10000 mg/l, Daphnia magna

REACH dossier information.

Sulphuric acid

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 16 - 28 mg/l, Lepomis macrochirus (Bluegill)

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

invertebrates

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 72 hours: > 100 mg/l, Desmodesmus subspicatus

plants

REACH dossier information.

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 65 days: 0.025 mg/l, Jordanella floridae

life stage

REACH dossier information.

Chronic toxicity - aquatic

NOEC, : 0.15 mg/l, Tanytarsus dissimilis

invertebrates

REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

propan-2-ol

Biodegradation

Water - Degradation (53%): 5 days

REACH dossier information.

Biological oxygen demand 1.19 - 1.72 g O₂/g substance REACH dossier information.

Chemical oxygen demand 2.23 g O₂/g substance REACH dossier information.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

12.4. Mobility in soil

Mobility

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

Sulphuric acid

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current UK criteria.

assessment

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

requirements of the local water authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1219
UN No. (IMDG) 1219
UN No. (ICAO) 1219
UN No. (ADN) 1219

14.2. UN proper shipping name

Proper shipping name

ISOPROPANOL

(ADR/RID)

Proper shipping name (IMDG) ISOPROPANOL
Proper shipping name (ICAO) ISOPROPANOL
Proper shipping name (ADN) ISOPROPANOL

14.3. Transport hazard class(es)

ADR/RID class 3
ADR/RID classification code F1
ADR/RID label 3
IMDG class 3
ICAO class/division 3

Transport labels



ADN class

14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ICAO packing group II
ADN packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

3

14.6. Special precautions for user

EmS F-E, S-D

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ADR transport category 2

Emergency Action Code •2YE

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

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

33

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).

Explosives precursors Regulated explosives precursor. Regulation (EU) No 2019/1148 of the European Parliament

and of the Council of 20 June 2019 on the marketing and use of explosives precursors: Contains a substance or substances listed in Annex I in concentrations not higher than the

limit values laid down therein: Sulphuric acid (H2SO4).

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

Eye Irrit. 2 - H319, STOT SE 3 - H336: Calculation method. Flam. Liq. 2 - H225, EUH066:

Expert judgement.

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

regulations/legislation specific for the substance or mixture.

Revision date 18/08/2021

Revision 9

Supersedes date 01/04/2021

SDS number 141

Hazard statements in full H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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