



SAFETY DATA SHEET ZAPPTIZER 22LTR CANISTER

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ZAPPTIZER 22LTR CANISTER

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

Identified uses Disinfectant. Sanitiser Spray For professional use only

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier Paragon Protection Systems Ltd
The Steading, Inchcoonans, Perthshire, PH2 7RB
01738 260025
sales@zapp.group

Manufacturer Paragon Protection Systems Ltd
The Steading, Inchcoonans, Perthshire, PH2 7RB
01738 260025
sales@zapp.group

1.4. Emergency telephone number

Emergency telephone Zappshelter - 01738 260025

National emergency telephone number For the emergency services - the ambulance, police and fire services - Tel: 999 /
When you need medical advice or treatment but it is not an emergency - Tel: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 3 - H229 Press. Gas (Comp.) - H280

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.

Additional information For professional users only.

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Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P410+P403 Protect from sunlight. Store in a well-ventilated place. P412 Do not expose to temperatures exceeding 50°C/122°F.
Biocide Labelling	This product contains active substance - N-ALKYL (68% C12, 32%C14) DIMETHYL-ETHYLBENZYL AMMONIUM CHLORIDES / N-ALKYL (60% C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDES

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

1-METHOXY-2-PROPANOL	10-17%
CAS number: 107-98-2	EC number: 203-539-1
Classification	
Flam. Liq. 3 - H226 STOT SE 3 - H336	
N-ALKYL (60% C14, 30%C16, 5%C12, 5%C18) DIMETHYL-BENZYL AMMONIUM CHLORIDES	<1%
CAS number: 68391-01-5	
M factor (Acute) = 10	
Classification	
Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	
N-ALKYL (68% C12, 32%C14) DIMETHYL-ETHYLBENZYL AMMONIUM CHLORIDES	<1%
CAS number: 85409-23-0	
M factor (Acute) = 10	
Classification	
Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 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	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
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Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention.
Ingestion	Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Drink 1 - 2 glasses of water.
Skin contact	In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	May cause discomfort.
Ingestion	Seek medical assistance May cause discomfort.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged or repeated exposure may cause the following adverse effects: Dryness and/or cracking.
Eye contact	May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is non-combustible.
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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.
Hazardous combustion products	None known.

5.3. Advice for firefighters

Protective actions during firefighting	In case of fire: Fight fire remotely due to the risk of explosion. Move containers from fire area if it can be done without risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) 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. Follow precautions for safe handling described in this safety data sheet. Provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautions Collect and place in suitable waste disposal containers and seal securely. 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. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Approach the spillage from upwind. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush away spillage with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological 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. Avoid exposing aerosol containers to high temperatures or direct sunlight. Keep away from heat. Avoid contact with eyes and prolonged skin contact.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 10°C and 25°C. Store in accordance with national regulations. Keep away from oxidising materials, heat and flames. Keep containers upright. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F.

Storage class 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

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 375 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 150 ppm(Sk) 560 mg/m³(Sk)

WEL = Workplace Exposure Limit.

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

For users with sensitive skin, it is recommended that suitable protective gloves are worn.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Good personal hygiene procedures should be implemented. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product. Provide eyewash station.

Respiratory protection

No specific requirements are anticipated under normal conditions of use.

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	Colourless.
Odour	Characteristic.
Odour threshold	Not available.
pH	5.0-6.0
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Bulk density	Not available.

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Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Non-viscous
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Refractive index	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.
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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	The following materials may react strongly with the product: Oxidising agents.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight. Containers can burst violently or explode when heated, due to excessive pressure build-up.
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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	Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes.
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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.
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Acute toxicity - dermal

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

Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
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Serious eye damage/irritation

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

Respiratory sensitisation	Based on available data the classification criteria are not met.
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Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro 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.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard May be harmful if swallowed and enters airways.

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

Inhalation Vapours in high concentration may be harmful.

Ingestion Due to the physical nature of this product, it is unlikely that ingestion will occur. Possibly harmful in large volumes.

Skin contact May cause skin sensitisation or allergic reactions in sensitive individuals. Redness.

Eye contact May be slightly irritating to eyes. May cause discomfort.

Toxicological information on ingredients.

1-METHOXY-2-PROPANOL

Skin corrosion/irritation

Summary No data available.

Serious eye damage/irritation

Summary No data available.

Skin sensitisation

Summary No data available

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Specific target organ toxicity - single exposure

STOT - single exposure Central nervous system (CNS) Respiratory system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

ZAPPTIZER 22LTR CANISTER**Aspiration hazard**

Aspiration hazard No data available.

Acute and chronic health hazards Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

N-ALKYL (60% C14, 30%C16, 5%C12, 5%C18) DIMETHYL-BENZYL AMMONIUM CHLORIDES**Acute toxicity - oral**

ATE oral (mg/kg) 684.21

Acute toxicity - dermal

Species Rat

ATE dermal (mg/kg) 1,100.0

N-ALKYL (68% C12, 32%C14) DIMETHYL-ETHYLBENZYL AMMONIUM CHLORIDES**Acute toxicity - oral**

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

SECTION 12: Ecological information**12.1. Toxicity****Ecological information on ingredients.****1-METHOXY-2-PROPANOL****Acute aquatic toxicity**

Acute toxicity - fish 6 812 mg/L

Acute toxicity - aquatic invertebrates 23 300 mg/L

N-ALKYL (60% C14, 30%C16, 5%C12, 5%C18) DIMETHYL-BENZYL AMMONIUM CHLORIDES**Acute aquatic toxicity**

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

N-ALKYL (68% C12, 32%C14) DIMETHYL-ETHYLBENZYL AMMONIUM CHLORIDES**Acute aquatic toxicity**

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.**1-METHOXY-2-PROPANOL**

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Persistence and degradability Soluble in water Persistence is unlikely based on information available.

Biodegradation No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Partition coefficient Not available.

Nitrogen

Partition coefficient log Pow: 8.08

12.4. Mobility in soil

Mobility Readily absorbed into soil.

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.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

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 None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. The generation of waste should be minimised or avoided wherever possible. When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Do not empty into drains. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Dispose of contents/container in accordance with national regulations.

Waste class The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3500

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UN No. (IMDG)	3500
UN No. (ICAO)	3500
UN No. (ADN)	3500

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CHEMICAL UNDER PRESSURE, N.O.S. (NITROGEN COMPRESSED GAS)
Proper shipping name (IMDG)	CHEMICAL UNDER PRESSURE, N.O.S. (NITROGEN COMPRESSED GAS)
Proper shipping name (ICAO)	CHEMICAL UNDER PRESSURE, N.O.S. (NITROGEN COMPRESSED GAS)
Proper shipping name (ADN)	CHEMICAL UNDER PRESSURE, N.O.S. (NITROGEN COMPRESSED GAS)

14.3. Transport hazard class(es)

ADR/RID class	2.2
ADR/RID classification code	8A
ADR/RID label	2.2
IMDG class	2.2
ICAO class/division	2.2
ADN class	2.2

Transport labels



14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-C, S-V
ADR transport category	3
Hazard Identification Number (ADR/RID)	20
Tunnel restriction code	(C/E)

14.7. Transport in bulk according to Annex II of MARPOL 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 Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
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EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

Health and environmental listings

This product is classified as a cosmetic, under the Cosmetic Products Regulation (as amended) in the European Union. The Statutory list of ingredients is carried on the product label. This product is classified as a biocide, under The Biocidal Product Regulation (BPR, Regulation (EU) 528/2012)

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.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Aerosol = Aerosol

Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

Asp. Tox. = Aspiration hazard

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Classification procedures according to Regulation (EC) 1272/2008

Aerosol 2 - H223, H229: Expert judgement. Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411: Calculation method.

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Revision date 03/12/2020

Revision 31

Supersedes date 29/11/2020

SDS number 23174

ZAPPTIZER 22LTR CANISTER

Hazard statements in full

H226 Flammable liquid and vapour.
H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

DIRECTIONS FOR USE

PRODUCT LOGO

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.