

SAFETY DATA SHEET

CAMO INSECT REPELLENT SPRAY 30%

Date: 16/04/2025 - Version No 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: CAMO INSECT REPELLENT SPRAY 30%
UFI No: 01A0-J0EX-Q00X-FD2V

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

Use of the mixture: Ready-to-use insect repellent spray for use on human skin.
Use advised against: Not for children below 3 months.

1.3 Details of the supplier of the safety data sheet

Supplier: Camo Brands Ltd
Unit 1, 27 Ackmar Road
London, SW64UR, UK
Telephone: +44 (0) 7882219289
Email: contact@camoprotect.com

EU supplier: Camo Brands (EU) Limited
Office 2, Lower Main Street, Lucan
K78X5P8 Dublin, Ireland
Email: contact@camoprotect.com

1.4 Emergency telephone number

Camo Brands Ltd: +44 (0) 7882219289 (Monday-Friday, office working hours 9 am - 5 pm)
Irish National Poison Centre: 01 809 2166

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP).
Flammable Liquid 3, H226
Eye Irritant 2, H319

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP).
Signal words: Warning

Pictograms:



GHS07



GHS02

Hazards statements: H226: Flammable liquid and vapour
H319: Causes serious eye irritation.

Precautionary statements:

P102: Keep out of reach of children.

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P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271: Use only outdoor
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P314: IF SWALLOWED: Get medical advice/attention if you feel unwell.
P501: Dispose of container/contents in accordance with local regulation.

Supplemental hazard statement:

EUH 208: Contains citronellol, citronellal, eucalyptol, linalool and limonene.
May produce an allergic reaction

2.3 Other hazards

This product contains no PBT/vPvB substances above 0,1% in accordance with REACH Annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture.

3.2 Mixtures

Substance name	CAS No EC No Index No	REACH status	Classification according to CLP	Conc. (%)
Eucalyptus citriodora oil, hydrated, cyclised (EC oil (H/C))	1245629-80-4 Not applicable	Exempt*	Eye Irrit. 2, H319	30
Ethanol**	64-17-5 200-578-6 603-002-00-5	01- 2119457610- 43-XXXX	Flam. Liq. 2, H225 Eye Irrit. 2, H319	20 – 40
Propan-2-ol**	67-63-0 200-661-7 603-117-00-0	01-219457558- 25-xxxx	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	10 - 20

For the full text of the H-Statements mentioned in this Section, see Section 16.

* The substance is exempt from REACH registration as it is already registered under the Biocidal Product Regulation No 528/2012.

** Substance with national workplace exposure limits, see section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General measures: If you feel unwell, seek medical advice. Have product container or label at hand.

After inhalation: Take the person into the open air. Get medical attention if any discomfort continues.

After ingestion: Rinse mouth thoroughly with water. Do not induce vomiting. Seek medical attention if symptoms persist.

After skin contact: In case of skin reaction or irritation, stop use of product. Wash skin with

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After eye contact: water and soap. Seek medical attention if symptoms persist.
Immediately rinse eyes cautiously with water for at least 15 minutes while keeping the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist if irritation persists.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause nausea, headache, dizziness.
Ingestion: May cause discomfort if swallowed, nausea, headache, dizziness, intoxication.
Skin: May cause an allergic reaction: redness, swelling, itchy skin, rash.
Eyes: May cause irritation, tears, redness, swelling.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Clear water point and eyewash station recommended at the workplace.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from substance or mixture

In case of fire, do not breathe fumes. Decomposition products may include CO and CO₂.

May form flammable / explosive vapour-air mixtures. Vapours are heavier than air. They can spread along the ground and form explosive mixtures with air.

5.3 Advice for firefighters

Remove sources of ignition (cigarette, sparks...). Use of a self-contained breathing apparatus.

Remove container from fire area if feasible and without risk. Keep container close to flames cool to avoid increase of pressure in the container which may lead to rupture. Prevent the creation of flammable or explosive concentrations in the air. Use non-sparking tools. Take action to prevent static discharges.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment as per Section 8. Avoid contact with eyes. Do not breathe spray mist/vapours/sprays. Provide adequate ventilation. Remove sources of ignition (heat, open flames, sparks). Do not smoke. Use non-sparking tools. Take action to prevent static discharges.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb with inert, non-combustible absorbent (sand, vermiculite, earth, diatomaceous earth). Collect in containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Discard according to local regulation.

6.4 Reference to other sections

See sections 7, 8, 12 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment as per Section 8. Avoid contact with eyes. Wash hands with mild soap and water after use and before eating, drinking, or smoking. Avoid breathing mist/vapours/spray. Make sure that ventilation is adequate. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage including any incompatibilities

Keep in original packaging tightly closed. Store in well-ventilated cool dry place at temperature not exceeding 25°C. Keep away from direct sunlight. Keep away from heat, sparks and open flames and other ignition sources. Keep out of reach of children.

Recommended packaging: same type as original packaging.

Unsuitable packaging: none known.

7.3 Specific end use(s)

Refer to section 1.2 and product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Where listed, National Occupational Exposure limits (OEL) apply in Finland for:

Substance and CAS No	Limit value – TWA Eight hours		Limit value – STEL Short term	
	ppm	mg/m ³	ppm	mg/m ³
Ethanol CAS No 64-17-5	1,000	1,900	1,300 (1)	2,500 (1)
Propan-2-ol CAS No 67-63-0	200	500	250 (1)	620 (1)

(1) 15 minutes average value

OEL values are in place in other countries.

Ethanol

DNEL, workers, systemic effects, inhalation long term exposure: 380 mg/m³

DNEL, workers, systemic effects, dermal long term exposure: 8,238 mg/kg bw/day

DNEL, general population, systemic effects, inhalation long term exposure: 114 mg/m³

PNEC water (fresh water): 0.96 mg/L

PNEC water (fresh water, intermittent): 2.75 mg/L

PNEC water (marine water): 0.79 mg/L

PNEC STP: 580 mg/L

PNEC sediment (fresh water): 3.6 mg/kg

PNEC sediment (marine water): 2.9 mg/kg

PNEC soil: 0.63 mg/kg

PNEC secondary poisoning: 0.38 g/kg

Propan-2-ol

DNEL, workers, systemic effects, inhalation long term exposure: 500 mg/m³

DNEL, workers, systemic effects, inhalation short term exposure: 1,000 mg/m³

DNEL, workers, systemic effects, dermal long term exposure: 888 mg/kg bw/day

DNEL, general population, systemic effects, oral long term exposure: 26 mg/kg bw/day

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DNEL, general population, systemic effects, dermal long term exposure: 319 mg/kg bw/day

DNEL, general population, systemic effects, inhalation long term exposure: 89 mg/m³

DNEL, general population, systemic effects, inhalation short term exposure: 178 mg/m³

8.2 Exposure controls

8.2.1 Appropriate Engineering Control Measures:

Provide adequate ventilation to minimise the risk of inhalation of vapours.

8.2.2 Individual protection measures, such as personal protective equipment

Hand protection: Not required. Gloves recommended (EN 374, nitrile rubber) for industrial handling, mostly in case of transfer or expected splashes.

Eye protection: Not required. Safety glasses or goggles recommended (EN 166) for industrial handling, mostly in case of transfer or expected splashes.

Skin, body protection: Not required. Protective clothing recommended for industrial handling, mostly in case of transfer or expected splashes.

Respiratory protection: Not required. Sufficient ventilation should be provided to maintain levels below exposure limits. For industrial handling, wear respiratory equipment in case of transfer, intensive use, mists or use in confined area.

Thermal hazards: See sections 6 and 7.

Hygiene measures: For industrial handling, handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

8.2.3 Environmental exposure controls

Prevent product from entering drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Clear liquid
Colour	Pale yellow
Odour	Citrus
Melting point/freezing point	No data available
Boiling point/initial boiling point/boiling range	No data available. EC oil (H/C): 267 °C at 103630 Pa ²
Flammability	Flammable
Lower and upper explosion limit	No data available
Flash point	26 °C
Autoignition temperature	No data available. EC oil (H/C): >200 °C
Decomposition temperature	No data available. EC oil (H/C): >150 °C
pH	6.5 - 9
Kinematic viscosity	25900-79400 mm ² /s at 20°C
Solubility	Emulsifiable in water
Partition coefficient: n-octanol/water (log value)	No data available. EC oil (H/C): log pow 1.9 ²
Vapour pressure	No data available. EC oil (H/C): 0.0638 Pa at 25 °C
Density and/or relative density	0.89-0.93 g/mL at 20°C
Relative vapour density	No data available
Particle characteristics	Not applicable (the product is a liquid)

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9.2 Other information

No other information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity expected under normal handling and storage conditions recommended in section 7.

10.2 Chemical stability

Considered stable under normal handling and storage conditions recommended in section 7.

10.3 Possibility of hazardous reactions

Under handling and storage conditions recommended in section 7, no hazardous reaction.

10.4 Conditions to avoid

Any device capable of producing a flame or capable of heating metal surface to high temperature (burners, electric arcs, ovens, etc.) should be banned from the premises. Avoid the accumulation of electrostatic charges. Keep away from heat, hot surfaces, friction, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Oxidising agents.

10.6 Hazardous decomposition products

Under handling and storage conditions recommended in section 7, no hazardous decomposition products. See section 5 for combustion products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity: No experimental test data available for the mixture.
Based on available data, the classification criteria are not met. An acute toxicity estimate (ATE) of the inhalation toxicity has been calculated. Since the value of this ATE is > 5, the product is not classified with regards to inhalation toxicity.

EC oil (H/C):

LD50 (oral, rat) mg/kg: > 2000 OECD 401.

LD50 (dermal, rat) mg/kg: > 2000 OECD 402.

LC50 (inhalation) mg/l/4h: 10.4 (calculated).

Ethanol:

LD50 (oral, rat): >2000 mg/kg (literature).

LC50 (inhalation, mouse): >20 mg/kg 4h (literature) OECD401

LD50 (rabbit, rat): >2000 mg/kg (literature)

Propan-2-ol:

LD50 (dermal, rabbit): >2000 mg/kg (literature) OECD 402

Rat LD50 oral: >2000 mg/kg (literature)

Skin Corrosion/Irritation:

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No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.
EC oil (H/C): mild irritant to rabbit skin OECD 404.
Ethanol: not irritating to rabbit skin OECD 404.
Propan-2-ol: not irritating to rabbit skin OECD 404.

Serious Eye Damage/Irritation:

No experimental test data available for the mixture.
Based on available data, causes serious eye irritation.
EC oil (H/C): moderate irritant to rabbit eyes OECD 405.
Ethanol: moderate irritant to rabbit eyes OECD 405.
Propan-2-ol: moderate irritant to rabbit eyes OECD 405.

Respiratory or Skin Sensitization:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met. Contains citronellol, citronellal, eucalyptol, linalool and limonene. May produce an allergic reaction.
EC oil (H/C): sensitisation (guinea pig) - negative OECD 406.
Ethanol: non sensitising (guinea pig, literature) OECD 406.
Propan-2-ol: non sensitising (guinea pig, literature) Buehler Test

Germ Cell Mutagenicity:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.
EC oil (H/C): no evidence of genotoxicity OECD 471, OECD 473, OECD 474
Ethanol: not mutagenic (literature Ames test).
Propan-2-ol: not mutagenic (literature Ames test) OECD 471

Carcinogenicity:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.

Reproductive Toxicity:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.
EC oil (H/C): no evidence of reproductive effects OPPTS 870.3800

STOT-Single Exposure:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.

STOT-Repeated Exposure:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.

Aspiration Hazard:

No experimental test data available for the mixture.
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties: the mixture does not contain substances considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No experimental test data available for the mixture. Based on available data, the classification criteria are not met.

EC oil (H/C):

Toxicity - Aquatic invertebrates EC50 (*Daphnia magna*): >26mg/L (48 hours) OECD 202.

NOELR_{repro} (*Daphnia magna*, 21 days): 4.00 mg/L OECD 211

LOELR_{repro} (*Daphnia magna*, 21 days): 10.00 mg/L OECD 211

Toxicity - Fish LC50: > 35 mg/L (96 hours) (*Danio rerio*) OECD 203.

Toxicity - Algae EC50: > 37 mg/L (72 hours) (*Pseudokirchneriella*) OECD 201.

Ethanol:

Toxicity - Fish LC50 (fish): > 100 mg/L (48 hours) (*Leuciscus idus*) OCDE 203

Toxicity - Aquatic invertebrates EC50 (*Daphnia magna*): > 100 mg/L (24 hours) OECD 202

Toxicity - Algae EC50: > 100 mg/L (*Chlorella pyrenoidosa*) OECD 201.

Propan-2-ol:

Toxicity - Fish LC50: > 100 mg/L (48 hours) (*Leuciscus idus melatonus*)

Toxicity - Aquatic invertebrates EC50 (*Daphnia magna*): > 100 mg/L (48 hours) OECD 202

Toxicity - Algae EC50: > 100 mg/L (72 hours) (*Scenedesmus subspicatus*) OECD 201.

12.2 Persistence and degradability

No information available.

EC oil (H/C): readily biodegradable OECD 301F.

Ethanol: readily biodegradable OECD 301D.

Propan-2-ol: readily biodegradable.

12.3 Bioaccumulative potential

No information available.

EC oil (H/C): low potential for bioaccumulation. The substance is readily metabolised in the human body and by other higher organisms. Low estimated bioconcentration/ accumulation tendencies predicted by QSAR for the major components of Eucalyptus citriodora oil, hydrated, cyclized are likely to be further offset by the amenability of those substances to biodegradation by microorganisms in the aquatic and terrestrial.

Component	Bioconcentration factor (BCFWIN)
<i>p</i> -Menthane-3,8-diol	11.47
Isopulegol	79.13
Citronellal	177.5
Citronellol	204.5

Propan-2-ol: not considered persistent or bioaccumulating.

12.4 Mobility in soil

Not applicable to mixtures.

12.5 Results of PBT and vPvB assessment

Not applicable to mixtures. EC oil (H/C) does not meet the criteria for classification as PBT or vPvB .
Propan-2-ol is not considered to be PBT or vPvB.

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12.6 Endocrine disrupting properties

The mixture does not contain substances considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations.

Unused packaging: discard according to the local regulations. Do not discharge product in sewage and drainage systems which lead to waterways.

Suggested European Waste Code according to Commission Decision 2000/532/EC: 07 04 99.

Contaminated packaging: waste product and worn-out packages must be discarded according to the local regulations as hazardous waste.

Suggested European Waste Code according to Commission Decision 2000/532/EC: 15 01 10.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number or ID Number

ARD/RID: 1987

IMDG: 1987

IATA: 1987

14.2 UN proper shipping name

Alcohols, N.O.S. (ETHANOL, PROPAN-2-OL)

14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

Label:



14.4 Packing group

ADR/RID: III

IMDG: III

EmS: F-E,S-D

IATA: III

14.5 Environmental hazards

No

14.6 Special precautions for user

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Always transport in closed containers that are upright and secure.

Road/Rail (ADR/RID)

Classification code: F1
Special provisions: 274, 601
Limited quantity: 5 L
Excepted quantities: E1
Packaging instructions: P001, IBC03, LP01, R001
Mixed packing provisions: MP19
Portable tanks and bulk containers instructions: T4
Portable tanks and bulk containers special provisions: TP1, TP29
Tank code: LGFB
Vehicle for tank carriage: FL
Tunnel restriction: 3 (D/E)
Special provisions for carriage packages: V12
Special provisions for carriage operation: S2
Hazard Code: 30

14.7 Maritime transport in bulk according to IMO instruments

Not applicable to packaged products.

SECTION 15: REGULATORY INFORMATION

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

This Safety Data Sheet is provided in compliance with EU REACH Regulation (EC) No 1907/2006, as amended by Regulation (EU) 2020/878.

The Camo Insect Repellent 30% is a biocidal product according to the Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.2 Chemical safety assessment

A chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

Key literature references and sources for data: supplier's SDS and ECHA C&L website. Calculation based on the hazards of the known components.

Abbreviation explanations:

- PBT: Persistent, Bioaccumulative and Toxic
- CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- vPvB: Very Persistent and Very Bioaccumulative
- Skin Irrit. 2: irritant to skin category 2
- Flam. Liq. 2: flammable liquid category 2
- STOT SE 3: Specific target organ toxicity Single Exposure category 3

Full text of Hazard- and EU Hazard-statements:

- H225: Highly flammable liquid and vapour
- H319: Causes serious eye irritation

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- H336: May cause drowsiness or dizziness

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