

## 1 Identification

- **Product identifier**
- **Trade name:** HELMET CARE SPRAY
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Helmet and visor cleaning  
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MOTOREX AG  
Bern–Zürich–Strasse 31, Postfach  
CH–4901 Langenthal  
Tel. +41 (0)62 919 75 75  
www.motorex.com  
  
A1 Accessory Imports  
60-62 Burchill St.  
Loganholme  
4129 QLD  
Australia  
Phone : 07 3451 1300
- **Further information obtainable from:** msds@motorex.com
- **Emergency telephone number:**  
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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Trade name: **HELMET CARE SPRAY**· **vPvB:** Not applicable.

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### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1, H220; Press. Gas C, H280	10-25%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1-2.5%
CAS: 39354-45-5	Poly(oxy-1,2-ethanediyl), .alpha.-(3-carboxy-1-oxo-3-sulfopropyl)-.omega.-(dodecyloxy)-, disodium sa Eye Irrit. 2, H319	≥0.25-≤2.5%

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

anionic surfactants, non-ionic surfactants, perfumes (4-tert-butylcyclohexyl acetate)	<5%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
The recommended storage temperature is (deg.C): 5-50°C  
Keep container tightly sealed.
- **Storage class:** 2 B
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.

- **Ingredients with limit values that require monitoring at the workplace:**

#### 106-97-8 butane, pure

WES Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm

#### 74-98-6 propane

WES Asphyxiant

#### 67-63-0 propan-2-ol

WES Short-term value: 1230 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 983 mg/m<sup>3</sup>, 400 ppm

- **DNELs**

#### 67-63-0 propan-2-ol

Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	888 mg/kg/24h (worker)
Inhalative	DNEL/general population/Systemic effects/Long-term	319 mg/kg/24h (consumer)
	DNEL / Workers / Systemic effects / Long-term	500 mg/m <sup>3</sup> (worker)
	DNEL/general population/Systemic effects/Long-term	89 mg/m <sup>3</sup> (consumer)

- **PNECs**

#### 67-63-0 propan-2-ol

Oral	PNEC / Predators / Secondary poisoning	160 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	140.9 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	140.9 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases (freshwater)	140.9 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sewage treatment plant / STP	2,251 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	552 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	552 mg/kg (aquatic organisms)

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PNEC / Terrestrial organism / Soil

28 mg/kg (terrestrial organisms)

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

## 9 Physical and Chemical Properties

- **General Information**
- **Appearance:**
- **Form:** Fluid
- **Colour:** Yellow
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** 6.3 (10g/L H<sub>2</sub>O) (DIN 51369)
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** -42 °C (DIN EN ISO 3405)
- **Flash point:** <-5 °C
- **Flammability (solid, gas):** Not applicable.
- **Auto-ignition temperature:** 365 °C (DIN 51794)
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**
- **Lower:** 1.5 Vol %
- **Upper:** 8.5 Vol %
- **Vapour pressure at 20 °C:** 2,100 hPa
- **Density at 20 °C:** 0.914 g/cm<sup>3</sup> (ASTM D 4052)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

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- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** < 1 mm<sup>2</sup>/s @ 40 °C (DIN 51562-1)
- **Solvent separation test:**
- **VOC (EC)** 15.04 %
- **Other information** No further relevant information available.

## 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

### 106-97-8 butane, pure

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	LC50 / 4h	658 mg/l (rat)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.2-21.4 mg/l (rat)
	LOAEC	21.6 mg/l (rat)
LOAEC	12,000 ppm (rat)	

### 67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat)
	LD50	16.4 ml/kg (rabbit)
Dermal	LD50	12,800 mg/kg (rabbit)
	LD50	10,000 ppm (rat)
Inhalative	LC50 / 6h	5,000 ppm (rat)
	NOAEC	500-5,000 ppm (rat)
	NOEC	

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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· **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

**106-97-8 butane, pure**

LC50 24.1-147.5 mg/l/96h (fish)

LC50 14.2-69.4 mg/l/48h (aquatic invertebrates)

EC50 7.7-19.4 mg/l/96h (algae / cyanobacteria)

**67-63-0 propan-2-ol**

LC50 9.64-10 mg/l/96h (fish)

LC50 10,000 mg/l/24h (aquatic invertebrates)

EC50 10,000 mg/l/24h (aquatic invertebrates)

· **Persistence and degradability** Biodegradability (OECD 302 B): >75 %

· **Behaviour in environmental systems:**

· **Bioaccumulative potential**

**106-97-8 butane, pure**

Partition coefficient 1.09-2.8 [---] (log Kow) (Bioaccumulation)

**67-63-0 propan-2-ol**

Partition coefficient 0.05 [---] (log Kow) (Bioaccumulation)

Biodegradability >70 % (28d) (Biodegradability) (EU Method C.5)

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

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## 14 Transport information

<ul style="list-style-type: none"> <li>· UN-Number</li> <li>· ADG, IMDG, IATA</li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· UN proper shipping name</li> <li>· ADG</li> <li>· IMDG</li> <li>· IATA</li> </ul>	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> <li>· Transport hazard class(es)</li> <li>· ADG</li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	2 5F Gases. 2.1
<ul style="list-style-type: none"> <li>· IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	2.1 Gases. 2.1
<ul style="list-style-type: none"> <li>· Packing group</li> <li>· ADG, IMDG, IATA</li> </ul>	Not classified as hazardous for transport
<ul style="list-style-type: none"> <li>· Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>· Special precautions for user</li> <li>· Hazard identification number (Kemler code): -</li> <li>· EMS Number:</li> <li>· Stowage Code</li> </ul>	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
<ul style="list-style-type: none"> <li>· Segregation Code</li> </ul>	Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
<ul style="list-style-type: none"> <li>· Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>	<hr style="border-top: 1px dashed black;"/>
<ul style="list-style-type: none"> <li>· ADG</li> <li>· Limited quantities (LQ)</li> </ul>	1L

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· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
<hr/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

## 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

7732-18-5	water, distilled, conductivity or of similar purity
106-97-8	butane, pure
74-98-6	propane
527-07-1	sodium gluconate
67-63-0	propan-2-ol
39354-45-5	Poly(oxy-1,2-ethanediyl), .alpha.-(3-carboxy-1-oxo-3-sulfopropyl)-.omega.-(dodecyloxy)-, disodium sa
9003-39-8	2-Pyrrolidinone, 1-ethenyl-, homopolymer
75-28-5	isobutane
110615-47-9	Alkylpolyglycoside C10-16
68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides
78-78-4	isopentane
68439-50-9	Alcohols, C12-14, ethoxylated
102-60-3	1,1',1",1'''-ethylenedinitrotetrapropan-2-ol
32210-23-4	4-tert-butylcyclohexyl acetate
1310-73-2	sodium hydroxide
128-51-8	Nopyl acetate
78-70-6	Linalool
118-58-1	Benzyl salicylate
106-24-1	Geraniol
122-40-7	Amyl cinnamal
87-20-7	Isoamyl salicylate
60-12-8	Phenethyl alcohol
106-22-9	Citronellol
107-75-5	Hydroxycitronellal
97-53-0	Eugenol
101-86-0	2-benzylideneoctanal
120-51-4	Benzyl benzoate
115-95-7	linalyl acetate
63500-71-0	2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol
101-48-4	1,1-dimethoxy-2-phenylethane

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· <b>Standard for the Uniform Scheduling of Medicines and Poisons</b>		
1310-73-2	sodium hydroxide	S5, S6, S10
106-24-1	Geraniol	S6
97-53-0	Eugenol	S5, S6
5392-40-5	Citral	S5
76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	S5, S6
470-82-6	1,8-epoxy-p-menthane	S6

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a** FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008. No special training instructions to ensure protection of human health and environment are required.

- **purity requirement**
- **Relevant phrases**
  - H220 Extremely flammable gas.
  - H225 Highly flammable liquid and vapour.
  - H280 Contains gas under pressure; may explode if heated.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Contact:**
- **Abbreviations and acronyms:**
  - Flam. Gas 1: Flammable gases – Category 1
  - Aerosol 1: Aerosols – Category 1
  - Press. Gas C: Gases under pressure – Compressed gas
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **\* Data compared to the previous version altered.**

AU