


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:**
BUCHER AG LANGENTHAL
MOTOREX-Schmiertechnik
Bern-Zürich-Strasse 31
CH-4901 Langenthal
Telefon +41 (0)62 919 75 75

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 Extremely flammable aerosol.

- **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 Extremely flammable aerosol.
- **Precautionary statements**
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.
- **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 Flam. Gas 1, H220; Press. Gas C, H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas C, H280	1-2.5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	1-2.5%

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

anionic surfactants, non-ionic surfactants	<5%
perfumes	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **Description of 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

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, 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.
- **Advice for firefighters**
- **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.
- **Conditions for safe storage, including any incompatibilities**
- **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:** 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.
- **Control parameters**

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

106-97-8 butane

NES Long-term value: 1900 mg/m³, 800 ppmWES Long-term value: 1900 mg/m³, 800 ppm

74-98-6 propane

NES Asphyxiant

WES Asphyxiant

67-63-0 propan-2-ol

NES Short-term value: 1230 mg/m³, 500 ppmLong-term value: 983 mg/m³, 400 ppmWES Short-term value: 1230 mg/m³, 500 ppmLong-term value: 983 mg/m³, 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)

DNEL/general population/Systemic effects/Long-term 319 mg/kg/24h (consumer)

Inhalative DNEL / Workers / Systemic effects / Long-term 500 mg/m³ (worker)DNEL/general population/Systemic effects/Long-term 89 mg/m³ (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)

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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)
PNEC / Terrestrial organism / Soil	28 mg/kg (terrestrial organisms)

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **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**
Protective gloves to EN374, resistant to oil in use. Standard EN 374 Level 3 control G1
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.
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
- **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.
For the mixture of chemicals mentioned below the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 1).
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value:** 6.3 (10g/L H₂O) (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.

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· Ignition temperature:	365 °C (DIN 51794)
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· 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 ³ (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.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	< 1 mm ² /s @ 40 °C (DIN 51562-1)
Solids content:	2.0 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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**

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

106-97-8 butane

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)

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	LOAEC	12,000 ppm (rat)
74-98-6 propane		
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)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.214-21.394 mg/l (rat)
	LOAEC	21.64 mg/l (rat)
	LOAEC	12,000 ppm (rat)
67-63-0 propan-2-ol		
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	16.4 ml/kg (rabbit)
	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 6h	10,000 ppm (rat)
	NOAEC	5,000 ppm (rat)
	NOEC	500-5,000 ppm (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

12 Ecological Information

· Toxicity

· Aquatic toxicity:

106-97-8 butane

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)

74-98-6 propane

LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 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

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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74-98-6 propane

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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67-63-0 propan-2-ol

Partition coefficient	0.05 [---] (log Kow) (Bioaccumulation)
Biodegradability	>70 % (28d) (Biodegradability) (EU Method C.5)

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- **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.
- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Discharged containers can contain flammable or explosive vapours.

14 Transport information

- | | |
|---------------------------------------|---|
| · UN-Number | |
| · ADG, IMDG, IATA | UN1950 |
| · UN proper shipping name | |
| · ADG | 1950 AEROSOLS |
| · IMDG | AEROSOLS |
| · IATA | AEROSOLS, flammable |
| · Transport hazard class(es) | |
| · ADG | |
| |  |
| · Class | 2 5F Gases. |
| · Label | 2.1 |
| · IMDG, IATA | |
| |  |
| · Class | 2.1 |
| · Label | 2.1 |
| · Packing group | |
| · ADG, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Warning: Gases. |

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· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· Stowage Code	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.
· Segregation Code	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.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	

· ADG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

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

· **Australian Inventory of Chemical Substances**

7732-18-5	water, distilled, conductivity or of similar purity
106-97-8	butane
74-98-6	propane
527-07-1	sodium gluconate
67-63-0	propan-2-ol
9003-39-8	2-Pyrrolidinone, 1-ethenyl-, homopolymer
39354-45-5	Poly(oxy-1,2-ethanediyl), .alpha.-(3-carboxy-1-oxo-3-sulfopropyl)-.omega.-(dodecyloxy)-, disodium sa
75-28-5	isobutane
110615-47-9	Alkylpolyglycoside C10-16
68515-73-1	D-Glucoopyranose, 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
77-86-1	trometamol
32210-23-4	4-tert-butylcyclohexyl acetate

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78-70-6	Linalool
128-51-8	Nopyl acetate
118-58-1	Benzyl salicylate
106-24-1	Geraniol
87-20-7	Isoamyl salicylate
122-40-7	Amyl cinnamal
115-95-7	Linalyl acetate
106-22-9	Citronellol
60-12-8	2-phenylethanol
120-51-4	Benzyl benzoate
97-53-0	Eugenol
101-86-0	2-benzylideneoctanal
80-54-6	2-(4-tert-Butylbenzyl)propionaldehyde
105-95-3	Ethylene brassylate
101-48-4	1,1-dimethoxy-2-phenylethane

· **Standard for the Uniform Scheduling of Medicines and Poisons**

5392-40-5	Citral	S5
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- **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 not 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.

· **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

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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

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Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· * **Data compared to the previous version altered.**

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