

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

- **Product identifier**
- **Trade name:** **MOTO PROTECT SPRAY**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation**
Only for proper handling.
Cleaning and maintenance agent
- **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
- **Information department:** msds@motorex.com
- **Emergency telephone number:**
Toxicological Information Centre
CH-8028 Zurich
info@toxi.ch
T. +41 (0)44 251 51 51

2 Hazards identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Extremely flammable

Extremely flammable.

Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.
Warning! Pressurized container.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

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· **Code letter and hazard designation of product:**



Extremely flammable

· **Risk phrases:**

Extremely flammable.

Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

Keep out of the reach of children.

Keep away from sources of ignition - No smoking.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

· **Special labelling of certain preparations:**

Pressurized 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.

Pressurized 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 on a naked flame or any incandescent material.

· **Classification in accordance with Directive 75/324/EEC:** Extremely flammable

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 4

Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**



Health = 0

Fire = 4

Reactivity = 3

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

	Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, < 2% Aromaten	50-70%
	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	
106-97-8	butane	10-25%
	⚠ Flam. Gas 1, H220; Press. Gas, H280	

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- **Information about protection against explosions and fires:**
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Pressurized 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 on a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 Store in a cool location.
 Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 Keep receptacle tightly sealed.
 Do not gas tight seal receptacle.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:	
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106-97-8 butane	
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REL	1900 mg/m ³ , 800 ppm
TLV	Short-term value: NIC-2370 mg/m ³ , NIC-1000 ppm Long-term value: (Varies) mg/m ³ , (1000) ppm

74-98-6 propane	
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PEL	1800 mg/m ³ , 1000 ppm
REL	1800 mg/m ³ , 1000 ppm
TLV	Varies mg/m ³ , 1000 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 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.

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· **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:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquefied gas
Color: colourless to light yellow

· **Odor:** Solvent-like

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** < -10 °C (< 14 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 250 °C (482 °F) (DIN 51794)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 1.5 Vol %

Upper: 8.5 Vol %

· **Vapor pressure at 20 °C (68 °F):** 2100 hPa (1575 mm Hg)

· **Density at 20 °C (68 °F):** 0.714 g/cm³ (5.958 lbs/gal) (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 mm²/s @ 40 °C (DIN 51562-1)

· **Solvent content:**

Organic solvents: 26.3 %

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VOC content:	26.3 % 187.8 g/l / 1.57 lb/gl
Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
91-64-5	Coumarin	3

· NTP (National Toxicology Program)
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-classification according VwVwS, 17.05.1999): 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.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Discharged containers can contain flammable or explosive vapours.

14 Transport information

- | | |
|----------------------------------|---------------------|
| · UN-Number | UN1950 |
| · DOT, ADR, IMDG, IATA | |
| · UN proper shipping name | AEROSOLS, flammable |
| · DOT, IATA | 1950 AEROSOLS |
| · ADR | AEROSOLS |
| · IMDG | |

- **Transport hazard class(es)**

- **DOT**



- | | |
|----------------|-----|
| · Class | 2.1 |
| · Label | 2.1 |

- **ADR**



- | | |
|----------------|------------|
| · Class | 2 5F Gases |
| · Label | 2.1 |

- **IMDG, IATA**



- | | |
|----------------|-----|
| · Class | 2.1 |
| · Label | 2.1 |

- **Packing group**

- | | |
|-------------------------------|------|
| · DOT, ADR, IMDG, IATA | Void |
|-------------------------------|------|

- **Environmental hazards:**

- | | |
|----------------------------|----|
| · Marine pollutant: | No |
|----------------------------|----|

- | | |
|---------------------------------------|----------------|
| · Special precautions for user | Warning: Gases |
|---------------------------------------|----------------|

- | | |
|--------------------------------|---|
| · Danger code (Kemler): | - |
|--------------------------------|---|

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- | | |
|---|-----------------------|
| · EMS Number: | F-D,S-U |
| · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | UN1950, AEROSOLS, 2.1 |

15 Regulatory information

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

· Section 355 (extremely hazardous substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):
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None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

106-97-8	butane
64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic
74-98-6	propane
75-28-5	isobutane
78-78-4	isopentane
25619-56-1	barium naphtalenesulfonate
8008-51-3	etherisches Öl (Cinnamomum camphora)
5989-54-8	(S)-p-mentha-1,8-diene
586-62-9	4-Mentha-1,4(8)-dien
100-52-7	benzaldehyde
121-33-5	vanillin
104-55-2	Cinnamal
91-64-5	Coumarin

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:
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None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
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None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)
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None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· National chemical directories

Components listed or exempted from listing:

TSCA (USA)

DSL/NDSL (CDN)

EINECS/ELINCS/NLP (EU)

ENCS/METI (J)

AICS (Aus)

IECSC (CN)

ECL/KECI (KOR)

PICCS (RP)

· 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.

· Department issuing MSDS: Abteilung Produktsicherheit

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