MOTOREX\*
Oil of Switzerland

Revision: 13.02.2024

Printing date 13.02.2024

Version number 4.1 (replaces version 4.0)

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

- · 1.1 Product identifier
- · Trade name: CHAINLUBE ADVENTURE SPRAY
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture

Only for proper handling.

Chain lubricant

- · 1.3 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

- · Further information obtainable from: msds@motorex.com
- 1.4 Emergency telephone number:

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 (UK only).

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if

heated.

Skin Irrit. 2 H315 Causes skin irritation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms







GHS02 GHS07 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan

Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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(Contd. of page 1) P103 Read carefully and follow all instructions. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves.

P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 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 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-25%
EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	≥10-<20%
	Kohlenwasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥10-<20%
EC number: 934-956-3 Reg.nr.: 01-2119827000-58	Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics Asp. Tox. 1, H304	5-10%
EC number: 920-107-4 Reg.nr.: 01-2119453414-43	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Asp. Tox. 1, H304	2.5-7.5%
EC number: 934-954-2 Reg.nr.: 01-2119826592-36	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics Asp. Tox. 1, H304	2.5-7.5%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-7.5%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5%	≥0.1-<0.25

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

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Remove residues with soap and water.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

### SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 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.

### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

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#### · 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.

- · 7.2 Conditions for safe storage, including any incompatibilities
- 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): ≤50°C

Keep container tightly sealed.

- · Storage class: 2 B
- · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

	ts with limit values that require monitoring at the w						
	butane, pure						
	ort-term value: 1810 mg/m³, 750 ppm						
	g-term value: 1450 mg/m³, 600 ppm c (if more than 0.1% of buta-1.3-diene)						
110-54-3	,						
	g-term value: 72 mg/m³, 20 ppm						
	cyclohexane						
	rt-term value: 1050 mg/m³, 300 ppm						
	g-term value: 350 mg/m³, 100 ppm						
DNELs							
Hydrocar	bons, C7-C9, n-alkanes, isoalkanes, cyclics						
Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)					
Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)					
	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)					
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m3 (worker)					
	DNEL/general population/Systemic effects/Long-term	608 mg/m3 (consumer)					
Kohlenwa	nsserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5	% n-Hexan					
Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)					
Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)					
	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)					
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m3 (worker)					
	DNEL/general population/Systemic effects/Long-term	608 mg/m3 (consumer)					
Hydrocar	bons, C15-C20 n-alkanes, isoalkanes, cycloalkanes	, <0.03% aromatics					
Dermal	DNEL / Workers / Systemic effects / Long-term	2.9 mg/kg/24h (worker)					
Inhalative	DNEL / Workers / Systemic effects / Long-term	16 mg/m3 (worker)					
110-82-7	cyclohexane						
Oral	DNEL/general population/Systemic effects/Long-term	59.4 mg/kg/24h (consumer)					
Dermal	DNEL / Workers / Systemic effects / Long-term	2,016 mg/kg/24h (worker)					
	DNEL/general population/Systemic effects/Long-term	1,186 mg/kg/24h (consumer)					

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Inhalative	DNEL / Workers / Systemic effects / Long-term	700 mg/m3 (worker)
	DNEL/Workers/Systemic effects/acute-short term	700 mg/m3 (worker)
	DNEL/Workers/Local effects/acute-short term	700 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	700 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	206 mg/m3 (consumer)
	DNEL/general pop/Systemic effects/acute-short term	412 mg/m3 (consumer)
	DNEL/general pop/Local effects/acute-short term	412 mg/m3 (consumer)
	DNEL/general population/Local effects/Long-term	206 mg/m3 (consumer)

#### · PNECs

#### 110-82-7 cyclohexane

PNEC / Aquatic organisms / Freshwater
PNEC / Aquatic organisms / Marine water
PNEC/Aquatic organisms/Sewage treatment plant/STP
PNEC / Aquatic organisms / Sediment (freshwater)
PNEC / Aquatic organisms / Sediment (marine water)
PNEC / Terrestrial organism / Soil

0.207 mg/l (aquatic organisms)
3.24 mg/l (aquatic organisms)
3.627 mg/kg (aquatic organisms)
3.627 mg/kg (aquatic organisms)
2.99 mg/kg (terrestrial organisms)

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

#### · Respiratory protection:

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· Hand protection



Protective gloves

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/face protection Not required.
- · Body protection: Protective work clothing

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### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Aerosol
Beige
Solvent-like
Not determined.
Undetermined.

· Boiling point or initial boiling point and

boiling range Not applicable, as aerosol.

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: 0.9 Vol %
 Upper: 8.5 Vol %
 Flash point: <-20 °C</li>

· Auto-ignition temperature:
 · Decomposition temperature:
 · pH
 >230 °C (DIN 51794)
 Not determined.
 Not determined.

Viscosity:

Kinematic viscosity < 50 mm²/s @40 °C (DIN 51562-1)</p>

Consistency

· **Dynamic:** Not determined.

Solubility

water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined.

Heat Capacity

Vapour pressure at 20 °C: 2,100 hPa

· Density and/or relative density

• Density at 20 °C: 0.859 g/cm³ (ASTM D 4052)

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquefied gas

· Important information on protection of health

and environment, and on safety.

• Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent separation test:

• **VOC (EC)** 50.55 %

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard

classes
⋅ Explosives Void
⋅ Flammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised

container: May burst if heated.

· Oxidising gases Void
· Gases under pressure Void
· Flammable liquids Void
· Flammable solids Void
· Self-reactive substances and mixtures Void
· Pyrophoric liquids Void

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· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

	butane, pure	t for classification:	
	· •	1,442.738-1.443 mg/l (rat)	
		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)	
Hydrocar	bons, C7-C9, r	n-alkanes, isoalkanes, cyclics	
Oral	LD50	8 ml/kg (rat)	
Dermal	LD50	4 ml/kg (rat)	
	LD50	2,800-3,100 mg/kg (rat)	
Inhalative	LC50 / 4h	23.3 mg/l (rat)	
	NOAEC	5.8-24.3 mg/l (rat)	
Kohlenwa	sserstoffe C6	-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan	
Oral	LD50	8 ml/kg (rat)	
Dermal	LD50	4 ml/kg (rat)	
	LD50	2,800-3,100 mg/kg (rat)	
Inhalative	LC50 / 4h	25.2 mg/l (rat)	
	NOAEC	8.117-24.3 mg/l (rat)	
			(Contd. on pag

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Hydrosor	hono C15 C20	(Contd. of pa
Oral	LD50	n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics 5,000 mg/kg (rat)
	LD50 LD50	
Dermal		2,000 mg/kg (rabbit)
	LC50 / 4h	1.72-4.6 mg/l (rat)
-		i, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Oral	LD50	5,000-15,000 mg/kg (rat)
<b>5</b> ,	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
		3,160-5,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	4.951-9.3 mg/l (rat)
	LC50 / 8h	41-4,467 ppm (rat)
	LC50 / 8h	5 mg/l (rat)
	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m3 (rat)
Hydrocar	bons, C13-C16	, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics
Oral	LD50	5,000 mg/kg (rat)
	NOAEL	5,000 mg/kg/24h (rat)
Dermal LD50 Inhalative LC50 / 4h		3,160 mg/kg (rabbit)
		5.266 mg/l (rat)
	NOAEC	10.4 mg/l (rat)
74-98-6 p	ropane	
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)
110-82-7	cyclohexane	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	32.88 mg/l (rat)
	LC50 / 4h	5,540 ppm (rat)
	NOAEC	500-2,000 ppm (mouse)
	_	500-7,000 ppm (rat)

- Skin corrosion/irritation Causes skin irritation.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards

· Fnaccrina	e disrupting	nronartiae
LIIUUUUIIII	, uisi ubililu	DI UDEI LIES

None of the ingredients is listed.

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Aquatic	toxicity:
106-97-8	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)
-	arbons, C7-C9, n-alkanes, isoalkanes, cyclics
EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	3-10 mg/l/96h (fish)
LL50	10-30 mg/l/72h (fish)
LL50	10-30 mg/l/48h (fish)
LL50	30-100 mg/l/24h (fish)
LLO	3 mg/l/96h (fish)
EL50	13 mg/l/96h (algae / cyanobacteria)
EL50	4.6-10 mg/l/48h (aquatic invertebrates)
	10-30 mg/l/48h (algae / cyanobacteria)
EL50	10-22 mg/l/24h (aquatic invertebrates)
	10-30 mg/l/24h (algae / cyanobacteria)
EL50	10-30 mg/l/72h (algae / cyanobacteria)
EL0	4.6 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
VOEC	0.17 mg/l/21d (aquatic invertebrates)
	0.574 mg/l/28d (fish)
	1 mg/l/21d (aquatic invertebrates)
	6.3 mg/l/96h (algae / cyanobacteria)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)
	wasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan
EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	11.4 mg/l/96h (fish)
LL50	15.8 mg/l/72h (fish)
LLO	5.1 mg/l/96h (fish)
EL50	3 mg/l/48h (aquatic invertebrates)
EL50	12 mg/l/24h (aquatic invertebrates)
EL50	10-100 mg/l/72h (algae / cyanobacteria)
ELO	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
	2.045 mg/l/28d (fish)
	1 mg/l/21d (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)
Hydroca	arbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

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LL50	1,000 mg/l/72h (fish)
LL50	1,000 mg/l/48h (fish)
LL50	1,000 mg/l/24h (fish)
LLO	1,000 mg/l/96h (fish)
EL50	1,000 mg/l/48h (aquatic invertebrates)
EL50	1,000 mg/l/24h (aquatic invertebrates)
EL50	1,000 mg/l/72h (algae / cyanobacteria)
EL0	1,000 mg/l/48h (aquatic invertebrates)
NOELR	1,000 mg/l/28d (fish)
NOELR	1,000 mg/l/21d (aquatic invertebrates)
NOELR	1,000 mg/l/72h (algae / cyanobacteria)
_	arbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics
EC50	100 mg/l/3h (microorganisms)
LL50	1.028 mg/l/96h (fish)
LL50	3.193 mg/l/48h (aquatic invertebrates)
LL50	3.193 mg/l/24h (aquatic invertebrates)
EL50	10,000 mg/l/72h (algae / cyanobacteria)
	1,000 mg/l/28d (fish)
	1,000 mg/l/21d (aquatic invertebrates)
	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)
LC50	7 cyclohexane   4.53 mg/l/96h (fish)
EC50	0.9-2.4 mg/l/96h (aquatic invertebrates)
EC50	3.4-9.317 mg/l/72h (algae / cyanobacteria)
NOEC	0.9-0.94 mg/l/72h (algae / cyanobacteria)
	rsistence and degradability No further relevant information available.
	paccumulative potential
	8 butane, pure
	coefficient 1.09-2.8 [] (log Kow) (Bioaccumulation)
	arbons, C7-C9, n-alkanes, isoalkanes, cyclics
Biodegra	adability 98 % (28d) (Biodegradability) (OECD 301 F)
Kohlen	wasserstoffe C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan
Biodegra	adability 81 % (28d) (Biodegradability) (OECD 301 F)
Hydroca	arbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Biodegra	
	arbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics
Biodegra	
	propane
	coefficient 1.09-2.8 [] (log Kow) (Bioaccumulation)
	7 cyclohexane
	coefficient 3.44 [] (log Kow) (Bioaccumulation)
	adability 77 % (28d) (Biodegradability) (OECD 301 F)
12.4 1/10	bility in soil No further relevant information available.  (Contd. on page 11)

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- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### SECTION 13: Disposal considerations

- · 13.1 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.

### SECTION 14: Transport information

•	14.1	UN	numl	ber o	r ID	number
---	------	----	------	-------	------	--------

· ADR/RID/ADN, IMDG, IATA

14.2 UN proper shipping name

· ADR/RID/ADN 1950 AEROSOLS, ENVIRONMENTALLY

UN1950

HAZARDOUS

· IMDG AEROSOLS

· IATA AEROSOLS, flammable

- · 14.3 Transport hazard class(es)
- · ADR/RID/ADN





· Class 2 5F Gases.

· **Label** 2.1

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(Contd. of page 11) · IMDG, IATA · Class 2.1 Gases. · Label 2.1 14.4 Packing group · ADR/RID/ADN, IMDG, IATA Not classified as hazardous for transport · 14.5 Environmental hazards: Marine pollutant: No · Special marking (ADR/RID/ADN): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Gases. Hazard identification number (Kemler code): -· 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. SG69 For AEROSOLS with a maximum capacity · Segregation Code 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. 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: · ADR/RID/ADN · Limited quantities (LQ) Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · Transport category Tunnel restriction code D · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY UN "Model Regulation": **HAZARDOUS** 

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#### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

### SECTION 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.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Abteilung Produktsicherheit
- Abbreviations and acronyms:

Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

\* \* Data compared to the previous version altered.

### Annex: Exposure scenario 1

- · Short title of the exposure scenario Industrial use of sprays
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· Product category

PC14 Metal surface treatment products

PC34 Textile dyes, and impregnating products

- Process category PROC11 Non industrial spraying
- Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- Physical state Fluid
- Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

### Annex: Exposure scenario 2

- · Short title of the exposure scenario Professional use of sprays
- · Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC14 Metal surface treatment products

PC34 Textile dyes, and impregnating products

- · Process category PROC11 Non industrial spraying
- Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

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- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- Water No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

### Annex: Exposure scenario 3

- · Short title of the exposure scenario Private use of sprays
- Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Product category
- PC14 Metal surface treatment products
- PC34 Textile dyes, and impregnating products
- Process category PROC11 Non industrial spraying
- · Environmental release category
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- · Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.

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Trade name: CHAINLUBE ADVENTURE SPRAY

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- · Environmental protection measures
- Air No special measures required.
- · Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

### Annex: Exposure scenario 4

- · Short title of the exposure scenario Industrial use of lubricants and greases in open systems
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- · Product category PC24 Lubricants, greases, release products
- · Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC7 Industrial spraying

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

· Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

- Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- Environmental protection measures
- Air No special measures required.
- Water No special measures required.
- Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.

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· Guidance for downstream users No further relevant information available.

#### Annex: Exposure scenario 5

- · Short title of the exposure scenario Professional use of lubricants and greases in open systems
- · Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Product category PC24 Lubricants, greases, release products
- · Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

· Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

#### Annex: Exposure scenario 6

- · Short title of the exposure scenario Private use of lubricants and greases in open systems
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Product category PC24 Lubricants, greases, release products

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#### · Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

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