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1 Identification

- · Product identifier
- · Trade name: CABLE PROTECT SPRAY
- 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. Lubrication, anticorrosive

- · 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.

Serious eye damage/irritation - Category 2A H319 Causes serious eye irritation.

Repr. 2 H361 Suspected of damaging fertility or the

unborn child.

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms







GHS02 GHS07

· Hazard-determining components of labelling:

4-hvdroxv-4-methylpentan-2-one

· Hazard statements

· Signal word Danger

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

H319 Causes serious eve irritation.

H361 Suspected of damaging fertility or the unborn child.

· Precautionary statements

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

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P102 Keep out of reach of children.

P103 Read label before use.

P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

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.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition and Information on Ingredients

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

Dangerous components:		
CAS: 123-42-2 EINECS: 204-626-7 Index number: 603-016-00-1	4-hydroxy-4-methylpentan-2-one Repr. 2, H361; Eye Irrit. 2, H319	10-25%
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%
EC number: 939-717-7	calcium bis(di C8-C10, branched, C9 rich, Alkylnaphthalenesulphonate) Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2.5%
CAS: 68411-46-1 EINECS: 270-128-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Repr. 2, H361	0.1-0.25%

[·] 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. If symptoms persist, consult a doctor.

- · 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:

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.

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· Protective equipment: No special measures required.

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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:

Dispose contaminated material as waste according to section 13.

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.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling Open and handle receptacle with care.
- Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

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): ≤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

Ingredien	ts with limit values that require monitoring at the w	vorkplace:
123-42-2	1-hydroxy-4-methylpentan-2-one	
WES Lon	g-term value: 238 mg/m³, 50 ppm	
106-97-8	butane, pure	
WES Lon	g-term value: 1900 mg/m³, 800 ppm	
74-98-6 pi	ropane	
WES Asp	hyxiant	
DNELs		
123-42-2	1-hydroxy-4-methylpentan-2-one	
Oral	DNEL/general population/Systemic effects/Long-term	3.4 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	46.7 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	3.3 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	31.4 mg/m3 (worker)

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			(Contd. of page 3)
	DNEL/Workers/Local effects/acute-short term	n	240 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term		31.4 mg/m3 (worker)
	DNEL/general population/Systemic effects/Lo	ong-term	5.6 mg/m3 (consumer)
68411-46-	1 Benzenamine, N-phenyl-, reaction produ	cts with	2,4,4-trimethylpentene
Oral	DNEL/general population/Systemic effects/Lo	ong-term	0.04 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-te	rm	0.08 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Lo	ong-term	0.04 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-te	rm	0.6 mg/m3 (worker)
	DNEL/general population/Systemic effects/Lo	ong-term	0.14 mg/m3 (consumer)
· PNECs			
123-42-2	4-hydroxy-4-methylpentan-2-one		
PNEC / Ad	quatic organisms / Freshwater	2 mg/l (a	aquatic organisms)
PNEC / Ad	quatic organisms / Marine water	0.2 mg/l	(aquatic organisms)
PNEC/Aqu	uatic organisms/Sewage treatment plant/STP	10 mg/l	(aquatic organisms)
PNEC / Ad	EC / Aquatic organisms / Sediment (freshwater)		/kg (aquatic organisms)
PNEC / Ad	quatic organisms / Sediment (marine water)	0.91 mg/	/kg (aquatic organisms)
PNEC / Te	errestrial organism / Soil	0.63 mg/	/kg (terrestrial organisms)
68411-46-	1 Benzenamine, N-phenyl-, reaction produ	cts with	2,4,4-trimethylpentene
PNEC / Ad	quatic organisms / Freshwater	0.0338 r	ng/l (aquatic organisms)
PNEC / Ad	quatic organisms / Marine water	0.00338	mg/l (aquatic organisms)
PNEC/Aqu	uatic org/intermittent releases(freshwater)	0.51 mg/	/I (aquatic organisms)
PNEC/Aqu	uatic organisms/Sewage treatment plant/STP	10 mg/l ((aquatic organisms)
PNEC / Ad	quatic organisms / Sediment (freshwater)	0.446 mg	g/kg (aquatic organisms)
PNEC / Ad	quatic organisms / Sediment (marine water)		ng/kg (aquatic organisms)
	errestrial organism / Soil		/kg (terrestrial organisms)
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- · 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.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

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.

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.

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· Eye protection: Not required.

· Body protection: Protective work clothing

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9 Physical and Chemical Properties

General Information

Appearance:Form: Compressed liquefied gas

· Colour: Blue

Odour: Characteristic
 Odour threshold: Not determined.
 pH-value: Not determined.

· Change in condition

· Melting point/freezing point: Undetermined.

· Initial boiling point and boiling range: Not applicable, as aerosol.

Flash point: <-10 °C

Flammability (solid, gas):
 Auto-ignition temperature:
 Decomposition temperature:
 Not applicable.
 365 °C (DIN 51794)
 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: 0.808 g/cm³ (ASTM D 4052)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 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: Not determined.

Solvent separation test:

· **VOC (EC)** 49.01 %

• 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.

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		(Contd. of page 5
		t for classification:
123-42-2	4-hydroxy-4-m	ethylpentan-2-one
Oral	LD50	3,002 mg/kg (rat)
	NOEL	30 mg/kg/24h (rat)
	NOAEL	100-600 mg/kg/24h (rat)
Dermal	LD50	13,630 mg/kg (rab)
Inhalative	NOAEC	4.685 mg/l (rat)
	NOEC	1.041 mg/l (rat)
	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)
68411-46-	1 Benzenamin	e, N-phenyl-, reaction products with 2,4,4-trimethylpentene
Oral	LD50	5,000 mg/kg (rat)
	NOEL	100 mg/kg/24h (rat)
	NOAEL	25 mg/kg/24h (rat)
	LOEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- · 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 Suspected of damaging fertility or the unborn child.
- 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.
- Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological Information

· Toxicity

· Aquati	c toxicity:
123-42	-2 4-hydroxy-4-methylpentan-2-one
LC50	100 mg/l/96h (fish)
LC50	100 mg/l/21d (aquatic invertebrates)
EC50	1,000 mg/l/3h (microorganisms)
EC50	1,000 mg/l/72h (algae / cyanobacteria)
EC50	100 mg/l/21d (aquatic invertebrates)
EC50	1,000 mg/l/48h (aquatic invertebrates)
NOEC	100 mg/l/21d (aquatic invertebrates)
NOEC	1,000 mg/l/72h (algae / cyanobacteria)
NOEC	1,000 mg/l/48h (aquatic invertebrates)
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	(Contd. of page 6)
LOEC	100 mg/kg/28d (aquatic invertebrates)
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)
68411-	46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
LC50	100 mg/l/96h (fish)
LC0	58 mg/l/96h (fish)
LC100	100 mg/l/96h (fish)
EC50	0.271-1 g/kg/28d (sediment)
EC50	100 mg/l/24h (aquatic invertebrates)
EC50	100 mg/l/72h (algae / cyanobacteria)
EC100	100 mg/l/48h (aquatic invertebrates)
EC50	51 mg/l/48h (aquatic invertebrates)
NOEC	0.03125-1 g/kg/28d (sediment)
	0.5-1 g/kg/28d (terrestr. macroorganisms (- arthropods))
NOEC	10-100 mg/l/72h (algae / cyanobacteria)
NOEC	10 mg/l/48h (aquatic invertebrates)
LOEC	0.0625-1 mg/l/21d (sediment)
	1 mg/l/21d (terrestr. macroorganisms (- arthropods))

- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:

Bioaccumulative potential	
123-42-2 4-hydroxy-4-methy	lpentan-2-one
Partition coefficient	0.009-1.9 [] (log Kow) (Bioaccumulation)
Biodegradability	100 % (28d) (Biodegradability) (OECD 301 A)
106-97-8 butane, pure	
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)
68411-46-1 Benzenamine, N-	phenyl-, reaction products with 2,4,4-trimethylpentene
Partition coefficient	5.2-10.8 [] (log Kow) (Bioaccumulation)
Bioconcentration factor (BCF)	1.73 BCF (Bioaccumulation)
Biodegradability	94.4 % (28d) (Biodegradability) (OECD 301 B)

- 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.

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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 T	rans	DO	пο	me	UО

· UN-Number	
· ADG IMDG IATA	LIN1950

· 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



2.1 Gases. · Class · Label 2.1

· Packing group

ADG, IMDG, IATA Not classified as hazardous for transport

· Environmental hazards: Not applicable.

Special precautions for user Warning: Gases.

· Hazard identification number (Kemler code):

· EMS Number: F-D.S-U

SW1 Protected from sources of heat. · Stowage Code

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.

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	(Contd. of page
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) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L 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

	eventory of Industrial Chemicals	_
8001-79-4	Castor oil	
123-42-2	4-hydroxy-4-methylpentan-2-one	
106-97-8	butane, pure	
74-98-6	propane	
<i>75-28-5</i>	isobutane	
125643-61-0	A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl)propiona	a
78-78-4	isopentane	
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
1330-20-7	xylene	
12645-31-7	Phosphoric acid, 2-ethylhexyl ester	
74499-36-8	9,10-Anthracenedione, 1,4-diamino-, N,N'-mixed 2-ethylhexyl and Me and pentyl derivs.	
6386-38-5	methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	
100-41-4	ethylbenzene	
122-39-4	diphenylamine	
Standard for	the Uniform Scheduling of Medicines and Poisons	=
1330-20-7 xy		T,

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· Australia: Priority Existing Chemicals

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
- · 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.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

- · 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

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A Repr. 2: Reproductive toxicity – Category 2

* Data compared to the previous version altered.