Safety Data Sheet
acc. to OSHA HCS

Printing date 06/03/2024 Reviewed on 06/03/2024

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1 Identification

· **Product identifier**

· **Trade name: CHAINLUBE ALLROUND SPRAY**

· **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

· **Information department:** msds@motorex.com
· **Emergency telephone number:**
USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

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2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Aerosols 1	H222 Extremely flammable aerosol.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
Aquatic Acute 3	H402 Harmful to aquatic life.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS02

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Lubricating oils, C15-30, hydrotreated neutral oil-based
1-decene, trimer, hydrogenated
isopentane
Distillates (petroleum), hydrotreated light naphthenic
· **Hazard statements**
H222 Extremely flammable aerosol.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
· **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.
P273	Avoid release to the environment.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 4
Reactivity = 0

· **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.

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3 Composition/information on ingredients

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

· **Dangerous components:**

CAS: 72623-86-0 EINECS: 276-737-9 Index number: 649-482-00-X	Lubricating oils, C15-30, hydrotreated neutral oil-based Aspiration Hazard 1, H304	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flammable Gases 1, H220; Gases under Pressure - Compressed gas, H280	10-25%
CAS: 157707-86-3 NLP: 500-393-3	1-decene, trimer, hydrogenated Aspiration Hazard 1, H304	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flammable Gases 1, H220; Gases under Pressure - Compressed gas, H280	2.5-7.5%
CAS: 68425-15-0 EINECS: 270-335-7	Polysulfides, di-tert-dodecyl Sensitization - Skin 1B, H317	≥0.25-<1%
CAS: 68413-48-9 EINECS: 270-220-1	Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinoth ioyl]thio] succinate Sensitization - Skin 1B, H317; Aquatic Chronic 4, H413	0.1-0.25%
EC number: 701-068-0	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	≥0.025-<0.1%

· **Additional information:**
Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.

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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.
· **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:**
CO_2, extinguishing 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.

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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 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.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
106-97-8	butane, pure	5500* ppm
74-98-6	propane	5500* ppm
75-28-5	isobutane	5500* ppm
78-78-4	isopentane	3000* ppm
1809-19-4	dibutyl phosphonate	9.6 mg/m³
29385-43-1	methyl-1H-benzotriazole	2 mg/m³

· **PAC-2:**		
106-97-8	butane, pure	17000** ppm
74-98-6	propane	17000** ppm
75-28-5	isobutane	17000** ppm
78-78-4	isopentane	33000*** ppm
1809-19-4	dibutyl phosphonate	110 mg/m³
29385-43-1	methyl-1H-benzotriazole	22 mg/m³

· **PAC-3:**		
106-97-8	butane, pure	53000*** ppm
74-98-6	propane	33000*** ppm

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75-28-5	isobutane	53000*** ppm
78-78-4	isopentane	200000*** ppm
1809-19-4	dibutyl phosphonate	630 mg/m³
29385-43-1	methyl-1H-benzotriazole	130 mg/m³

· **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

· **Precautions for safe handling** No special precautions are necessary if used correctly.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
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:**
Observe official regulations on storing packagings with pressurized 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 receptacle tightly sealed.
· **Storage class:** 2 B
· **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

106-97-8 butane, pure	
REL	Long-term value: 1900 mg/m³, 800 ppm
TLV	Short-term value: 1000 ppm (EX)
74-98-6 propane	
PEL	Long-term value: 1800 mg/m³, 1000 ppm
REL	Long-term value: 1800 mg/m³, 1000 ppm
TLV	see Appendix F Minimal oxygen content (D, EX)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Additional information about design of technical systems:** No further data; see section 7.
· **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.

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· **Breathing equipment:**
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.
· **Eye protection:** Not required.
· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	Not applicable, as aerosol.
· **Flammability (solid, gaseous):**	Not applicable.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	<-20 °C
· **Decomposition temperature:**	Not determined.
· **pH-value:**	Not determined.
· **Viscosity:**	
· **Kinematic:**	Not determined.
· **Consistency**	
· **Dynamic:**	Not determined.
· **Solubility in / Miscibility with**	
· **Water:**	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Vapor pressure:**	Not determined.
· **Vapor pressure:**	
· **Density at 20 °C:**	0.724 g/cm³ (ASTM D 4052)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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· **Solvent separation test**	
· **VOC content:**	30.00 %
· **VOC (EU)**	30.00 %
· **Change in condition**	
· **Evaporation rate**	Not applicable.

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.

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11 Toxicological information

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

· **LD/LC50 values that are relevant for classification:**		
72623-86-0 Lubricating oils, C15-30, hydrotreated neutral oil-based		
Oral	LD50	5,000 mg/kg (rat)
	LOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000-5,000 mg/kg (rabbit)
	NOAEL	150 mg/kg/24h (mouse)
		30-2,000 mg/kg/24h (rat)
		1,000 mg/kg/24h (rabbit)
	LOAEL	100 mg/kg/24h (mouse)
Inhalative	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOEL	220 mg/m3 (rat)
	NOAEL	980 mg/m3 (rat)
106-97-8 butane, pure		
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	LC50 / 4h	658 mg/l (rat)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.2-21.4 mg/l (rat)
	LOAEC	21.6 mg/l (rat)
	LOAEC	12,000 ppm (rat)
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)

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	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)
68425-15-0 Polysulfides, di-tert-dodecyl		
Oral	LD50	19,550 mg/kg (rat)
	NOAEL	1,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 4h	15.5 mg/l (rat)
68413-48-9 Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinoth ioyl]thio]succinate		
Oral	LD50	11,300 mg/kg (rat) (OECD 401)
	NOAEL	1,000 mg/kg (rat)

· **Aspiration hazard** May be fatal if swallowed and enters airways.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

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

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
72623-86-0 Lubricating oils, C15-30, hydrotreated neutral oil-based	
LL50	10,000 mg/l/96h (aquatic invertebrates)
	100 mg/l/96h (fish)
LL50	10,000 mg/l/72h (aquatic invertebrates)
LL50	10,000 mg/l/48h (aquatic invertebrates)
LL50	10,000 mg/l/24h (aquatic invertebrates)
EL50	10,000 mg/l/48h (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)
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)
68425-15-0 Polysulfides, di-tert-dodecyl	
LC50	100 mg/l/96h (fish)
LC0	100 mg/l/96h (fish)
LL50	100 mg/l/96h (fish)
NOEC	0.08 mg/l/72h (algae / cyanobacteria)

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	10-10,000 mg/l/72h (microorganisms)
NOEC	100 mg/l/96h (fish)
NOEC	0.1 mg/l/48h (aquatic invertebrates)
68413-48-9 Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinoth ioyl]thio]succinate	
EC50	>100 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
EC50	>100 mg/l/48h (Daphnia Magna) (OECD 202)
LL50	>100 mg/l/96h (rainbow trout) (OECD 203)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential**	
72623-86-0 Lubricating oils, C15-30, hydrotreated neutral oil-based	
Partition coefficient	>6 [---] (log Kow) (Bioaccumulation)
106-97-8 butane, pure	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
74-98-6 propane	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
68425-15-0 Polysulfides, di-tert-dodecyl	
Partition coefficient	6.2-12.45 [---] (log Kow) (Bioaccumulation)
68413-48-9 Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinoth ioyl]thio]succinate	
Partition coefficient	6.5 [---] (log Kow) (Bioaccumulation) (OECD 117)
Biologische Abbaubarkeit	12.1 % (28d) (Biodegradability) (OECD 301 B)

· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-classification according VwVwS, 17.05.1999): hazardous for 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.
Harmful to aquatic organisms

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

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14 Transport information

· **UN-Number**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	UN1950
· **UN proper shipping name**	
· **DOT**	Aerosols, flammable
· **ADR/RID/ADN**	1950 AEROSOLS
· **IMDG**	AEROSOLS
· **IATA**	AEROSOLS, flammable
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	2.1 Gases
· **Label**	2.1
· **ADR/RID/ADN**	
· **Class**	2 5F Gases
· **Label**	2.1
· **IMDG, IATA**	
· **Class**	2.1 Gases
· **Label**	2.1
· **Packing group**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **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.

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· **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 MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR/RID/ADN**	
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **UN "Model Regulation":**	UN 1950 AEROSOLS, 2.1

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

72623-86-0	Lubricating oils, C15-30, hydrotreated neutral oil-based	ACTIVE
106-97-8	butane, pure	ACTIVE
74-98-6	propane	ACTIVE
75-28-5	isobutane	ACTIVE
68425-15-0	Polysulfides, di-tert-dodecyl	ACTIVE
78-78-4	isopentane	ACTIVE
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	ACTIVE
261767-39-9	Fatty acids, C8-18 and C18-unsatd., polymers with adipic acid and pentaerythritol	ACTIVE
68413-48-9	Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinoth ioyl]thio]succinate	ACTIVE
68442-68-2	benzenamine, N-phenyl-, styrenated	ACTIVE
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic	ACTIVE
72623-86-0	Lubricating oils, C15-30, hydrotreated neutral oil-based	ACTIVE
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACTIVE
268567-32-4	Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-	ACTIVE

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64743-00-6	Hydrocarbon waxes (petroleum), oxidized	ACTIVE
61789-86-4	Calcium petroleumsulfonate, synthetic, neutral	ACTIVE
1809-19-4	dibutyl phosphonate	ACTIVE
29385-43-1	methyl-1H-benzotriazole	ACTIVE
105-75-9	dibutyl fumarate	ACTIVE
61789-86-4	Calcium petroleumsulfonate, synthetic, neutral	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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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.

· **Department issuing SDS:** Abteilung Produktsicherheit
· **Date of preparation / last revision** 06/03/2024 / 1.1
· **Abbreviations and acronyms:**
Flammable Gases 1: Flammable gases – Category 1
Flammable Aerosols 1: Aerosols – Category 1
Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - Skin 1B: Skin sensitisation – Category 1B
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
· *** Data compared to the previous version altered.**