Safety Data Sheet
acc. to OSHA HCS

Printing date 05/30/2023 Reviewed on 05/30/2023

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1 Identification

· **Product identifier**

· **Trade name: CHAINLUBE ALLROUND**

· **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**

Sensitization - Skin 1	H317 May cause an allergic skin reaction.
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**

GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Polysulfides, di-tert-dodecyl
· **Hazard statements**
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	If on skin: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **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	50-70%
CAS: 1000172-11-1 EC number: 700-184-9	Pentadecane, 7-methylene mixed with 1-tetradecene, dimers and trimers, hydrogenated Aspiration Hazard 1, H304	25-50%
CAS: 68425-15-0 EINECS: 270-335-7	Polysulfides, di-tert-dodecyl Sensitization - Skin 1B, H317	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	≥0.25-<1%
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 and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water.

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· **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:** *Use fire fighting measures that suit the environment.*
· **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** *Not required.*
· **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1809-19-4	dibutyl phosphonate	9.6 mg/m³
29385-43-1	methyl-1H-benzotriazole	2 mg/m³
75-21-8	ethylene oxide	5 ppm

· **PAC-2:**		
1809-19-4	dibutyl phosphonate	110 mg/m³
29385-43-1	methyl-1H-benzotriazole	22 mg/m³
75-21-8	ethylene oxide	45 ppm

· **PAC-3:**		
1809-19-4	dibutyl phosphonate	630 mg/m³
29385-43-1	methyl-1H-benzotriazole	130 mg/m³
75-21-8	ethylene oxide	200 ppm

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage

· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** *No special measures required.*

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· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** *No special requirements.*
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:**
The recommended storage temperature is (deg.C): ≤50°C
· **Storage class:** *10*
· **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
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:**

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 protection:** *Goggles recommended during refilling.*
· **Body protection:** *Protective work clothing*

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Color:** *Yellow-brown*

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· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	Undetermined.
· **Flammability (solid, gaseous):**	Not applicable.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	>150 °C (>302 °F)
· **Decomposition temperature:**	Not determined.
· **pH-value:**	Not determined.
· **Viscosity:**	
· **Kinematic:**	35 mm²/s @ 40 °C (95 mm²/s @ 104 °F)
· **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 (68 °F):**	0.832 g/cm³ (6.943 lbs/gal) (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 does not present an explosion hazard.
· **Solvent separation test**	
· **VOC content:**	0.00 % 0.0 g/l / 0.00 lb/gal
· **VOC (EU)**	0.00 %
· **Change in condition**	
· **Evaporation rate**	Not determined.

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.

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· **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)
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)

· **Sensitization:** May cause an allergic skin reaction.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
75-21-8	ethylene oxide	1

· **NTP (National Toxicology Program)**		
75-21-8	ethylene oxide	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
75-21-8	ethylene oxide

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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)
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)
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.

14 Transport information

· **UN-Number**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	Void

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· **Transport hazard class(es)**	
· **DOT, ADR/RID/ADN, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

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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):**	
75-21-8	ethylene oxide

· **Section 313 (Specific toxic chemical listings):**	
75-21-8	ethylene oxide

· **TSCA (Toxic Substances Control Act):**		
72623-86-0	Lubricating oils, C15-30, hydrotreated neutral oil-based	ACTIVE
1000172-11-1	Pentadecane, 7-methylene mixed with 1-tetradecene, dimers and trimers, hydrogenated	ACTIVE
68425-15-0	Polysulfides, di-tert-dodecyl	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
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
75-21-8	ethylene oxide	ACTIVE

· **Hazardous Air Pollutants**	
75-21-8	ethylene oxide

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· **Proposition 65**

· **Chemicals known to cause cancer:**	
75-21-8	ethylene oxide

· **Chemicals known to cause reproductive toxicity for females:**	
75-21-8	ethylene oxide

· **Chemicals known to cause reproductive toxicity for males:**	
75-21-8	ethylene oxide

· **Chemicals known to cause developmental toxicity:**	
75-21-8	ethylene oxide

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
75-21-8	ethylene oxide	CaH

· **TLV (Threshold Limit Value)**		
75-21-8	ethylene oxide	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
75-21-8	ethylene oxide

· **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.

· **Department issuing SDS:** Abteilung Produktsicherheit
· **Date of preparation / last revision** 05/30/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
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 1: Skin sensitisation – 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

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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.***