

## 1 Identification

- **Product identifier**
- **Trade name: CHAINLUBE ROAD**
- **Application of the substance / the mixture**  
Chain lubricant  
Only for proper handling.
- **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)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Aerosols 1 H222 Extremely flammable aerosol.  
Skin Irritation 2 H315 Causes skin irritation.  
Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.  
Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.  
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 GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics  
n-hexane  
Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane  
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
- **Hazard statements**  
H222 Extremely flammable aerosol.  
H315 Causes skin irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.

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- 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.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 If on skin: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a poison center/doctor if you feel unwell.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 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.

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


Health = 1  
 Fire = 4  
 Reactivity = 0

**HMIS-ratings (scale 0 - 4)**


HEALTH 1 Health = 1  
 FIRE 4 Fire = 4  
 REACTIVITY 3 Reactivity = 3

**Other hazards**
**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

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

**Dangerous components:**

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%
EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Specific Target Organ Toxicity - Single Exposure 3, H336	≥10-<20%

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EC number: 921-024-6	Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Aquatic Chronic 2, H411; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336; Aquatic Acute 2, H401	≥10-<20%
EC number: 919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Flammable Liquids 3, H226; Aspiration Hazard 1, H304; Specific Target Organ Toxicity - Single Exposure 3, H336	≥10-<20%
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: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Flammable Liquids 2, H225; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Aquatic Chronic 2, H411; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	0.25-1%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	≥0.1-<0.25%

#### 4 First-aid measures

- **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:** 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.
- **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<sub>2</sub>, 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.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.

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- **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
110-54-3	n-hexane	260 ppm
110-82-7	cyclohexane	300 ppm

- **PAC-2:**

106-97-8	butane, pure	17000 ppm
74-98-6	propane	17000** ppm
110-54-3	n-hexane	2900* ppm
110-82-7	cyclohexane	1700* ppm

- **PAC-3:**

106-97-8	butane, pure	53000 ppm
74-98-6	propane	33000*** ppm
110-54-3	n-hexane	8600** ppm
110-82-7	cyclohexane	10000** 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.

## 7 Handling and storage

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.  
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/m<sup>3</sup>, 800 ppm

TLV Short-term value: 1000 ppm  
(EX)

### 74-98-6 propane

PEL Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

TLV see Appendix F Minimal oxygen content ( D, EX)

### 110-54-3 n-hexane

PEL Long-term value: 1800 mg/m<sup>3</sup>, 500 ppm

REL Long-term value: 180 mg/m<sup>3</sup>, 50 ppm

TLV Long-term value: 50 ppm  
Skin; BEI

### 110-82-7 cyclohexane

PEL Long-term value: 1050 mg/m<sup>3</sup>, 300 ppm

REL Long-term value: 1050 mg/m<sup>3</sup>, 300 ppm

TLV Long-term value: 100 ppm  
BEI

- **Ingredients with biological limit values:**

### 110-54-3 n-hexane

BEI 0.5 mg/L

Medium: urine

Time: end of shift

Parameter: 2.5-Hexanedione without hydrolysis

### 110-82-7 cyclohexane

BEI NIC-50 mg/g creatinine

Medium: -

Time: end of shift at end of workweek

Parameter: NIC-1.2-Cyclohexanediol (nonspecific)

- **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.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **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.

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**· 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:** Not required.

**· Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

**· General Information**

**· Physical state**

Aerosol

**· Color:**

white

**· Odor:**

Solvent-like

**· Odor threshold:**

Not determined.

**· Melting point/Melting range:**

Undetermined.

**· Boiling point/Boiling range:**

Not applicable, as aerosol.

**· Flammability:**

Not applicable.

**· Explosion limits:**

**· Lower:**

Not determined.

**· Upper:**

Not determined.

**· Flash point:**

<-20 °C

**· Decomposition temperature:**

Not determined.

**· pH-value:**

Not determined.

**· Viscosity:**

**· Kinematic:**

20 mm<sup>2</sup>/s @ 40 °C

**· 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:**

0.78 g/cm<sup>3</sup> (ASTM D 4052)

**· Relative density**

Not determined.

**· Vapor density**

Not determined.

**· Other information**

**· Appearance:**

**· Form:**

Liquefied gas

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- **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.

- **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.

## 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:**

### 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)	

### Hydrocarbons, C7-C9, 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)

### Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
	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)

### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Oral	LD50	5,000-15,000 mg/kg (rat)
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Dermal Inhalative	NOAEL	1,000-5,000 mg/kg/24h (rat)
	LD50	2,000 mg/kg (rat)
	LC50 / 8h	41-4,467 ppm (rat)
	LC50 / 8h	5 mg/l (rat) (OECD 403)
	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m3 (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)
	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)

- **Primary irritant effect:**
- **on the skin:** Causes skin irritation.
- **Reproductive toxicity** Suspected of damaging fertility or the unborn child.
- **Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.
- **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.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**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)

**Hydrocarbons, 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)

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LL50	10-30 mg/l/72h (fish)
LL50	10-30 mg/l/48h (fish)
LL50	30-100 mg/l/24h (fish)
LL0	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)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	0.574 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
NOELR	6.3 mg/l/96h (algae / cyanobacteria)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

**Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane**

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)
LL0	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)
EL0	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	2.045 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics**

LL50	1,000 mg/l/96h (fish)
LL50	1,000 mg/l/72h (fish)
LL50	1,000 mg/l/48h (fish)
LL50	1,000 mg/l/24h (fish)
LL0	100 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	0.131 mg/l/28d (fish)
NOELR	0.23 mg/l/21d (aquatic invertebrates)
NOELR	3-100 mg/l/72h (algae / cyanobacteria)

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**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)

**110-82-7 cyclohexane**

LC50	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)

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

· **Bioaccumulative potential****106-97-8 butane, pure**

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

Biologische Abbaubarkeit	98 % (28d) (Biodegradability) (OECD 301 F)
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**Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane**

Biologische Abbaubarkeit	81 % (28d) (Biodegradability) (OECD 301 F)
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**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics**

Biologische Abbaubarkeit	80 % (28d) (Bioaccumulation) (OECD 301 F)
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**74-98-6 propane**

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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**110-82-7 cyclohexane**

Partition coefficient	3.44 [---] (log Kow) (Bioaccumulation)
Biologische Abbaubarkeit	77 % (28d) (Biodegradability) (OECD 301 F)

· **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

## 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.

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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, ENVIRONMENTALLY HAZARDOUS
· IMDG	AEROSOLS, MARINE POLLUTANT
· 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	
	 
· Class	2.1 Gases
· Label	2.1
· IATA	
	
· Class	2.1 Gases
· Label	2.1
· Packing group	
· DOT, ADR/RID/ADN, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	Yes (DOT) Symbol (fish and tree)
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
· Special precautions for user	Warning: Gases
· Hazard identification number (Kemler code):	-

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· <b>EMS Number:</b>	F-D,S-U
· <b>Stowage Code</b>	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.
· <b>Segregation Code</b>	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.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Remarks:</b>	Special marking with the symbol (fish and tree).
· <b>ADR/RID/ADN</b>	
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

## 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):**

110-54-3 | n-hexane

110-82-7 | cyclohexane

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

106-97-8 | butane, pure

ACTIVE

9003-29-6 | Polybuten (Isobutylene-/Buten-Copolymer)

ACTIVE

74-98-6 | propane

ACTIVE

110-54-3 | n-hexane

ACTIVE

110-82-7 | cyclohexane

ACTIVE

95-38-5 | 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol

ACTIVE

(Contd. on page 13)

**Trade name: CHAINLUBE ROAD**

(Contd. of page 12)

110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	ACTIVE
<b>· Hazardous Air Pollutants</b>		
110-54-3	n-hexane	
<b>· Proposition 65</b>		
<b>· Chemicals known to cause cancer:</b>		
None of the ingredients is listed.		
<b>· Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients is listed.		
<b>· Chemicals known to cause reproductive toxicity for males:</b>		
110-54-3	n-hexane	
<b>· Chemicals known to cause developmental toxicity:</b>		
None of the ingredients is listed.		
<b>· Carcinogenic categories</b>		
<b>· EPA (Environmental Protection Agency)</b>		
110-54-3	n-hexane	//
110-82-7	cyclohexane	/
<b>· TLV (Threshold Limit Value)</b>		
None of the ingredients is listed.		
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		
<b>· Chemical safety assessment: A Chemical Safety Assessment has been carried out.</b>		

## 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 previous version** 03/26/2024
- **Version number of previous version:** 1.0
- **Date of preparation / last revision** 01/27/2025 / 1.0
- **Abbreviations and acronyms:**
  - Flammable Gases 1: Flammable gases – Category 1
  - Aerosols 1: Aerosols – Category 1
  - Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas
  - Flammable Liquids 2: Flammable liquids – Category 2
  - Flammable Liquids 3: Flammable liquids – Category 3
  - Skin Irritation 2: Skin corrosion/irritation – Category 2
  - Toxic to Reproduction 2: Reproductive toxicity – Category 2
  - 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 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
  - 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **\* Data compared to the previous version altered.**