Lubriflux Fettkartusche

Article number Id.-Nr. 1339629

**RÖHM GmbH** 

89567 Sontheim



Date printed 18.06.2024, Revision 18.06.2024

Version 3.0. Supersedes version: 2.0

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

#### 1.1 Product identifier

Lubriflux Fettkartusche

Article number: Id.-Nr. 1339629

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Grease

1.2.2 Uses advised against

None known.

#### 1.3 Details of the supplier of the safety data sheet

Company RÖHM GmbH

Heinrich-Roehm-Str. 50 89567 Sontheim / GERMANY Phone +49(0)7325 16-0 Fax +49(0)7325 16-510 Homepage www.roehm.biz E-mail info@roehm.biz

Address enquiries to

Technical information info@roehm.biz

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

**Company** +49(0)7325 16-0

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

heated.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2: H315 Causes skin irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction.

Repr. 2: H361f Suspected of damaging fertility.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H336 May cause drowsiness or dizziness.

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#### 2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

**Hazard pictograms** 



Signal word DANGER

**Hazard statements** H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H336 May cause drowsiness or dizziness.

**Precautionary statements** P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from flames and hot surfaces. No smoking. P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P261 Avoid breathing vapors. P280 Wear protective gloves.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER/doctor. P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

regulation.

#### 2.3 Other hazards

**Human health dangers** If swallowed or in the event of vomiting, risk of product entering the lungs.

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

#### **SECTION 3: Composition / Information on ingredients**

# 3.1 Substances

Not applicable

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#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
0 - 95	Butane
	CAS: 106-97-8
25 - 50	Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)
0 - 95	Propane
	CAS: 74-98-6
0 - 95	iso-Butane
	CAS: 75-28-5
2,5 - < 10	Propylene carbonate
	CAS: 108-32-7
<= 2,5	Aluminium powder
	CAS: 7429-90-5
0,25 - < 2,5	n-Hexane
	CAS: 110-54-3
0 - 2	Isopentane
	CAS: 78-78-4
≤ 1%	Chromium
	CAS: 7440-47-3
0,25 - < 1	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6
0,25 - < 1	Tolutriazol Derivate, EC / List no.939-700-4
	CAS: 80584-90-3/80595-74-0
0,1 - < 1	Níquel
	CAS: 7440-02-0
0 - 2	Ethane
	CAS: 74-84-0

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact** In case of contact with skin wash off immediately with soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Ingestion** Consult a doctor immediately.

Do not induce vomiting.

Rinse mouth.

# 4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor.

If swallowed or in the event of vomiting, risk of product entering the lungs.

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# SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Sand.

Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not

be used

Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Bursting aerosols can be forcibly projected from a fire.

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

#### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

Wear suitable protective equipment. For personal protection see SECTION 8.

Use breathing apparatus.

Keep people away and stay on the upwind side.

## 6.2 Environmental precautions

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

# 6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder,

diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Provide good room ventilation even at ground level (vapors are heavier than air).

Avoid contact with eyes and skin. Use personal protective equipment.

Keep away from open flames, hot surfaces and sources of ignition.

Pressurised container: May burst if heated.

Do not pierce or burn, even after use.

Use explosion-proofed equipment/fittings and non-sparkling tools.

Take precautionary measures against static discharges.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

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#### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store with combustible materials. Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Protect from heat/overheating and from sun. Do not keep at temperatures above 50 °C.

# 7.3 Specific end use(s)

See product use, SECTION 1.2

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# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

Long-term exposure: 100 ppm, 525 mg/m³, OSHA

Propane

CAS: 74-98-6

Long-term exposure: 1000 ppm, 1800 mg/m3, OSHA

Butane

CAS: 106-97-8

Long-term exposure: 800 ppm, 1900 mg/m³, NIOSH

n-Hexane

CAS: 110-54-3

Long-term exposure: 500 ppm, 1800 mg/m³, (ACGIH: 50 ppm, 176 mg/m³)

Níquel

CAS: 7440-02-0

Long-term exposure: 0,015 mg/m³, NIOSH; OSHA-PEL - 1 mg/m³

N,N-Bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine

CAS: 80595-74-0

Long-term exposure: OSHA PEL

iso-Butane

CAS: 75-28-5

Long-term exposure: 1000 ppm, ACGIH 2011

Chromium

CAS: 7440-47-3

Long-term exposure: 0,5 mg/m³, OSHA

#### DNEL

Substance

Butane, CAS: 106-97-8

There are no DNEL values established for the substance.

Propane, CAS: 74-98-6

There are no DNEL values established for the substance.

n-Hexane, CAS: 110-54-3

Industrial, inhalative, Long-term - systemic effects, 75 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 16 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 5,3 mg/kg bw/day

general population, oral, Long-term - systemic effects, 4 mg/kg bw/day

iso-Butane, CAS: 75-28-5

There are no DNEL values established for the substance.

Propylene carbonate, CAS: 108-32-7

Industrial, inhalative, Long-term - systemic effects, 70,53 mg/m³

Industrial, inhalative, Long-term - local effects, 20 mg/m³

Industrial, dermal, Long-term - systemic effects, 20 mg/kg bw/day

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Industrial, dermal, Long-term - local effects, 10 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 17,4 mg/m<sup>3</sup>

general population, inhalative, Long-term - local effects, 10 mg/m<sup>3</sup>

general population, dermal, Long-term - local effects, 10 mg/kg bw/day

general population, oral, Long-term - local effects, 10 mg/kg bw/day

Tolutriazol Derivate, EC / List no.939-700-4, CAS: 80584-90-3/80595-74-0

Industrial, inhalative, Long-term - systemic effects, 1,3 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 0,4 mg/kg bw/d

general population, dermal, Long-term - systemic effects, 0,2 mg/kg bw/d

general population, oral, Long-term - systemic effects, 0,2 mg/kg bw/d

general population, inhalative, Long-term - systemic effects, 0,3 mg/m³

Isopentane, CAS: 78-78-4

Industrial, inhalative, Long-term - systemic effects, 3000 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 643 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day

general population, oral, Long-term - systemic effects, 214 mg/kg bw/day

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/day

Industrial, inhalative, Long-term - systemic effects, 2035 mg/m<sup>3</sup>

general population, inhalative, Long-term - systemic effects, 608 mg/m³

general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day

general population, oral, Long-term - systemic effects, 699 mg/kg bw/day

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -

Industrial, inhalative, Long-term - systemic effects, 4.28 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 12.5 mg/kg bw/day

Industrial, dermal, Long-term - local effects, 160 µg/cm²

Industrial, dermal, Acute - local effects, 160 µg/cm<sup>2</sup>

general population, inhalative, Long-term - systemic effects, 1.09 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 6.25 mg/kg bw/day

general population, dermal, Long-term - local effects, 160 μg/cm<sup>2</sup>

general population, dermal, Acute - local effects, 160 µg/cm<sup>2</sup>

general population, oral, Long-term - systemic effects, 250 µg/kg bw/day

Aluminium powder, CAS: 7429-90-5

Industrial, inhalative (dust), Long-term - local effects, 3,72 mg/m³

#### **PNEC**

Substance

Butane, CAS: 106-97-8

There are no PNEC values established for the substance.

Propane, CAS: 74-98-6

There are no PNEC values established for the substance.

iso-Butane, CAS: 75-28-5

There are no PNEC values established for the substance.

Propylene carbonate, CAS: 108-32-7

seawater, 0,09 mg/l

freshwater, 0,9 mg/l

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sewage treatment plants (STP), 7400 mg/l

soil, 0,81 mg/kg

Tolutriazol Derivate, EC / List no.939-700-4, CAS: 80584-90-3/80595-74-0

freshwater, 0,000976 mg/l

seawater, 0,0000976 mg/l

sewage treatment plants (STP), 0,69 mg/l

Isopentane, CAS: 78-78-4

There are no PNEC values established for the substance.

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

There are no PNEC values established for the substance

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -

freshwater, 2.4 µg/L

seawater, 240 ng/L

sewage treatment plants (STP), 24.33 mg/L

sediment (freshwater), 12.9 µg/kg sediment dw

sediment (seawater), 1.29 µg/kg sediment dw

soil, 1.17 µg/kg soil dw

oral (food), 10 mg/kg food

#### 8.2 Exposure controls

Additional advice on system design 

Ensure adequate ventilation on workstation.

**Eye protection** Not required under normal conditions.

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information

0,4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Protective clothing (EN 340)

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Do not inhale gases.

Avoid contact with eyes and skin.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards Not applicable

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state 1) Liquid

2) Liquefied gas

Form Dual-chamber aerosol can

Color dark grey

(Liquid)

Odor like mineral oil

Odor threshold No information available.

pH-value Not applicablepH-value [1%] Not applicable

Boiling point or initial boiling point

and boiling range [°C]

80 - 110 (176 - 230 °F) (Liquid) -42 - 0 (-43,6 - 32 °F) (propellant)

Flash point [°C] < 0 (< 32 °F) (Liquid)

-80 (-112 °F) (1013 hPa) (Propellant)

Flammability Not applicable

Lower explosion limit 0,8 Vol. % (CAS 64742-49-0) (Liquid)

5 Vol. % (propellant)

Upper explosion limit 8,0 Vol. % (CAS 64742-49-0) (Liquid)

10,9 Vol. % (propellant)

Oxidizing properties No

Vapor pressure/gas pressure [kPa] 220 - 840 (20°C / 68°F) (propellant)

**Density [g/cm³]** ca. 0,9 (20 °C / 68°F) (Liquid)

0,5 - 0,58 (20°C / 68°F) (propellant)

Relative density

Bulk density [kg/m³]

Not applicable

Solubility in water

virtually insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

Not applicable

Kinematic viscosity

Relative vapour density

Melting point [°C]

Not applicable

Not applicable

Auto-ignition temperature [°C] 365 - 470°C (689 - 878°F) (propellant)

250°C (482°F) (Liquid)

Decomposition temperature [°C] Not applicable

Particle characteristics No information available.

9.2 Other information

Temperature class (ATEX - Equipment intended for use in explosive atmospheres): T2

(propellant)

#### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Heat causes increase in pressure and risk of bursting.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

Stable under recommended storage conditions.

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## 10.3 Possibility of hazardous reactions

No hazardous reactions known.

# 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# 10.5 Incompatible materials

No information available.

# 10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

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# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### Acute oral toxicity

Produc<sup>\*</sup>

Based on the information available, the classification criteria have not been fulfilled.

Substance

Níquel, CAS: 7440-02-0

LD50, oral, Rat, > 9000 mg/kg (IUCLID)

n-Hexane, CAS: 110-54-3

LD50, oral, Rat, 16000 mg/kg bw

Propylene carbonate, CAS: 108-32-7

LD50, oral, Rat, 33520 mg/kg

NOAEL, oral, Rat, 1000 mg/kg (OECD 414)

Tolutriazol Derivate, EC / List no.939-700-4, CAS: 80584-90-3/80595-74-0

LD50, oral, Rat, > 2000 mg/kg

Isopentane, CAS: 78-78-4

LD50, oral, Rat, >2000 mg/kg bw (OECD 401)

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

LD50, oral, Rat, > 5840 mg/kg

Chromium, CAS: 7440-47-3

LD50, oral, Rat, > 5000 mg/kg

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -

LD50, oral, Rat, 2000 mg/kg bw

#### Acute dermal toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

n-Hexane, CAS: 110-54-3

LD50, dermal, Rabbit, > 3350 mg/kg

3350 mg/kg bw

Propylene carbonate, CAS: 108-32-7

LD50, dermal, Rabbit, > 2000 mg/kg

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

LD50, dermal, Rat, > 2920 mg/kg

# Acute inhalational toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

Butane, CAS: 106-97-8

LC50, inhalative, Rat, 658 mg/L (IUCLID)

Ethane, CAS: 74-84-0

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LC50, Rat, 1443 mg/l/15min

LC50, mouse, 1237 mg/l/2h

Propane, CAS: 74-98-6

LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)

n-Hexane, CAS: 110-54-3

LC50, inhalative, Rat, 259,4 g/m<sup>3</sup>, 24h

iso-Butane, CAS: 75-28-5

LC50, inhalative, mouse, 1237 mg/L

Isopentane, CAS: 78-78-4

LC50, inhalativ (gas), Rat, > 25,3 mg/L, 4h

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

LC50, inhalative, Rat, > 25,2 mg/l (4 h)

Chromium, CAS: 7440-47-3

LC50, inhalative, Rat, 5,41 mg/l/4h

Aluminium powder, CAS: 7429-90-5

LC50, inhalativ (dust), Rat, > 5,09 mg/L (4h)

#### Serious eye damage/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Butane, CAS: 106-97-8

Eye, non-irritating

Ethane, CAS: 74-84-0

no adverse effect observed

Níquel, CAS: 7440-02-0

no adverse effect observed

Propane, CAS: 74-98-6

Eye, non-irritating

n-Hexane, CAS: 110-54-3

Eye, non-irritating

iso-Butane, CAS: 75-28-5

Eye, non-irritating

Propylene carbonate, CAS: 108-32-7

Rabbit, in vivo, OECD 405, irritant

Isopentane, CAS: 78-78-4

no adverse effect observed

Eye, no adverse effect observed

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

Eye, in vivo, non-irritating

Chromium, CAS: 7440-47-3

no adverse effect observed

### Skin corrosion/irritation

Irritant

Calculation method

Substance

Butane, CAS: 106-97-8

dermal, non-irritating

Ethane, CAS: 74-84-0

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no adverse effect observed

Níquel, CAS: 7440-02-0

no adverse effect observed

Propane, CAS: 74-98-6

dermal, non-irritating

n-Hexane, CAS: 110-54-3

dermal, irritant

iso-Butane, CAS: 75-28-5

dermal, non-irritating

Propylene carbonate, CAS: 108-32-7

Rabbit, in vivo, OECD 404, non-irritating

Isopentane, CAS: 78-78-4

no adverse effect observed

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

dermal, in vivo, irritant

Chromium, CAS: 7440-47-3

no adverse effect observed

Respiratory or skin sensitisation

May cause an allergic skin reaction. Calculation method

Substance

Butane, CAS: 106-97-8

dermal, non-sensitizing

inhalative, non-sensitizing

Ethane, CAS: 74-84-0

dermal, no adverse effect observed

inhalative, no adverse effect observed

Propane, CAS: 74-98-6

dermal, non-sensitizing

inhalative, non-sensitizing

n-Hexane, CAS: 110-54-3

dermal, non-sensitizing, LLNA Test,

iso-Butane, CAS: 75-28-5

dermal, non-sensitizing

inhalative, non-sensitizing

Propylene carbonate, CAS: 108-32-7

Human, in vivo (non-LLNA), non-sensitizing

Isopentane, CAS: 78-78-4

dermal, no adverse effect observed

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

dermal, in vivo, non-sensitizing

Chromium, CAS: 7440-47-3

dermal, no adverse effect observed

inhalative, no adverse effect observed

Specific target organ toxicity — single exposure

Vapors may cause drowsiness and dizziness. Calculation method

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Substance

Butane, CAS: 106-97-8

inhalative, non-irritating

Ethane, CAS: 74-84-0

inhalative, no adverse effect observed

Propane, CAS: 74-98-6

inhalative, non-irritating

iso-Butane, CAS: 75-28-5

inhalative, non-irritating

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

inhalative, adverse effect observed

Chromium, CAS: 7440-47-3

inhalative, no adverse effect observed

Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Calculation method

Substance

Propane, CAS: 74-98-6

NOAEC, inhalative, Rat, 4437 mg/m³, The effects observed are not sufficient for classification.

n-Hexane, CAS: 110-54-3

LOAEC, inhalative, mouse, 1760 mg/m<sup>3</sup>

Isopentane, CAS: 78-78-4

NOAEC, inhalative, Rat, 20000 mg/m³, no adverse effect observed

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -

NOAEL, oral, Rat, 150 mg/kg bw/day

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

n-Hexane, CAS: 110-54-3

in vitro, negativ

in vivo, negativ

Propylene carbonate, CAS: 108-32-7

in vitro DANN damage and/or repair study, OECD 482, negativ

mouse, in vivo mammalian somatic cell study, OECD 474, negativ

Isopentane, CAS: 78-78-4

in vitro, negativ

in vivo, negativ

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

in vivo, negativ

Reproduction toxicity

Suspected of damaging fertility. Calculation method

- Fertility

Substance

n-Hexane, CAS: 110-54-3

NOAEC, inhalative, Rat, 31680 mg/m<sup>3</sup>

Propylene carbonate, CAS: 108-32-7

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NOAEL, oral, mouse, 10 100 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEC, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity), adverse effect observed

Isopentane, CAS: 78-78-4

NOAEC, inhalative, Rat, 24080 mg/m³, no adverse effect observed

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

NOAEC, inhalative, (systemic): 8117 mg/m³, The effects observed are not sufficient for classification.

### - Development

Substance

n-Hexane, CAS: 110-54-3

NOAEC, inhalative, Rat, 31680 mg/m<sup>3</sup>

Propylene carbonate, CAS: 108-32-7

NOAEL, oral, mouse, 10 100 mg/kg bw/d (Effect on fertility), no adverse effect observed

NOAEC, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity), adverse effect observed

Isopentane, CAS: 78-78-4

NOAEL, oral, Rat, 1000 mg/kg bw/day, no adverse effect observed

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

NOAEC, inhalative, (systemic): 8117 mg/m³, The effects observed are not sufficient for classification.

#### Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

n-Hexane, CAS: 110-54-3

NOAEC, inhalative, mouse, 10560 mg/m<sup>3</sup>

Propylene carbonate, CAS: 108-32-7

no adverse effect observed

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

no adverse effect observed

**Aspiration hazard** 

May be fatal if swallowed and enters airways.

Calculation method

General remarks

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.

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# **SECTION 12: Ecological information**

# 12.1 Toxicity

ubstance
utane, CAS: 106-97-8
C50, (48h), Invertebrates, 14,22 - 69,43 mg/L
íquel, CAS: 7440-02-0
C50, (96h), Brachidanio rerio, > 100 mg/l (OECD 203)
C50, (48h), Daphnia magna, > 100 mg/l (OECD 202)
550, (72h), Selenastrum capricornutum, 100 mg/l (OECD 201)
Hexane, CAS: 110-54-3
L50, (48h), Invertebrates, 21,85 mg/L
L50, (72h), Algae, 9,285 mg/L
OELR, (72h), Algae, 2,077 mg/L
OELR, (21d), Invertebrates, 4,888 mg/L
OELR, (28d), fish, 2,8 mg/L
_50, (96h), fish, 12,51 mg/L
ropylene carbonate, CAS: 108-32-7
C50, (96h), fish, > 1000 mg/l (EU EC C.1)
C50, (16h), Bacteria, 25619 mg/l (DIN DIN 38412 Part 8)
C50, (48h), Daphnia magna, > 1000 mg/l (OECD 202)
OEC, (72h), Algae, 900 mg/l (OECD 201)
C50, (72h), Algae, > 900 mg/l (OECD 201)
olutriazol Derivate, EC / List no.939-700-4, CAS: 80584-90-3/80595-74-0
C50, (96h), fish, 1,3 mg/l
C50, (48h), Daphnia magna, 2,05 mg/l
C50, (72h), Algae, 0,976 mg/l
opentane, CAS: 78-78-4
L50, (48h), Daphnia magna, 59,9 mg/L
L50, (72h), Pseudokirchneriella subcapitata, 25,3 mg/L
_50, (96h), Oncorhynchus mykiss, 34,3 mg/L
L10, (21d), Daphnia magna, 11,5 mg/L
L10, (60d), Oncorhynchus mykiss, 6,57 mg/L
aphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < % n-hexane, EC / List no. 921-024-6)
C50, (96h), Oncorhynchus mykiss, 11,4 mg/L
C50, (48h), Daphnia magna, 3 mg/L
OELR, (28d), Oncorhynchus mykiss, 2,045 mg/L
OELR, (21d), Daphnia magna, 1 mg/L
eaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and nines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -
C50, (96h), Algae, 6.4 - 15 mg/L
L50, (48h), Invertebrates, 91.4 mg/L
L50, (21d), Invertebrates, 660 - 910 μg/L
_50, (96h), fish, 24 mg/L
uminium powder, CAS: 7429-90-5
C50, (96h), Pimephales promelas, 1,16 mg/L
C50, (48h), Ceriodaphnia dubia, 0,72 mg/L

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#### 12.2 Persistence and degradability

Behaviour in environment

No information available.

compartments

No information available.

Behaviour in sewage plant Biological degradability

Substance

Níquel, CAS: 7440-02-0

The methods for determining the boilogical degradability are not applicable to inorganic substances.

n-Hexane, CAS: 110-54-3

The product is readily biodegradable.

Propylene carbonate, CAS: 108-32-7

OECD 301 B, The product is readily biodegradable.

Isopentane, CAS: 78-78-4

The product is readily biodegradable.

Naphtha (petroleum), hydrotreated light, CAS 64742-49-0 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, EC / List no. 921-024-6)

(28d), 98%, OECD 301 F

Chromium, CAS: 7440-47-3

The methods for determining the boilogical degradability are not applicable to inorganic substances.

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -

The product is not biodegradable.

Aluminium powder, CAS: 7429-90-5

The methods for determining the boilogical degradability are not applicable to inorganic substances.

# 12.3 Bioaccumulative potential

Substance

Propylene carbonate, CAS: 108-32-7

log Pow, -0,41

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), EC / List no. 931-384-6, CAS: -

BCF, 432

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Not applicable

#### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment.

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# **SECTION 13:** Disposal considerations

# 13.1 Waste treatment methods

**Product** 

For recycling, consult manufacturer.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

# SECTION 14: Transport

#### 14.1 UN number

Transport by land according to ADR/RID

1950

Inland navigation (ADN)

1950

Marine transport in accordance with 1950

**IMDG** 

Air transport in accordance with IATA 1950

DOT Road Shipment Information (49 1950

CFR)

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## 14.2 UN proper shipping name

Transport by land according to

ADR/RID

Aerosols

- Classification Code

5F

- Label

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN)

Aerosols

- Classification Code

- Label



Marine transport in accordance with

**IMDG** 

Aerosols (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)

- EMS

F-D, S-U

- Label

- IMDG LQ

Air transport in accordance with IATA Aerosols, flammable

- Label



DOT Road Shipment Information (49 UN/NA 1950 Aerosols 2

CFR)

- Label



# 14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

2

Inland navigation (ADN)

Marine transport in accordance with 2.1

**IMDG** 

Air transport in accordance with IATA 2.1

DOT Road Shipment Information (49 2

CFR)

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## 14.4 Packing group

Transport by land according to ADR/RID

Inland navigation (ADN)

Not applicable

Not applicable

Marine transport in accordance with

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

#### 14.5 Environmental hazards

Transport by land according to ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with No

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

CFR)

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

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# **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**US Regulations** 

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, **National regulations** 

TSCA, California - Prop. 65

- SARA, 302 No information available.

- SARA, 311 Flammable (aerosols)

Aspiration Hazard Skin Sensitization Skin Irritation Reproductive toxicity

Specific target organ toxicity (repeated exposure) Specific target organ toxicity (single exposure)

This product contain one ingredient regulated under this list(40 CFR part 372.65): CAS 7440-- SARA, 313

02-0 / CAS 7440-47-3 / CAS 7429-90-5 / CAS 110-54-3 / CAS 110-82-7

- CA Proposition 65



WARNING: This product can expose you to chemicals including "n-Hexane, CAS 110-54-3", which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov."



WARNING: This product can expose you to chemicals including "Nickel, CAS 7440-02-0", which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA No information available. American Conference of No information available.

Governmental Industrial Hygienists -

International Agency for Research on IARC: Group 2B carcinogen CAS 7440-02-0

IARC: Group 3 CAS 7440-47-3 **Cancer IARC** 

**National Toxicology Program - NTP** AS 7440-02-0 is named in the NTP - National Toxicology Program.

**HAP-VOC** VOC-content: 100% (Propellant) VOC-content: 46,8 % (Liquid)

DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024) **Transport-regulations** 

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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# **SECTION 16: Other information**

#### 16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route:

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

GHS = Globally Harmonized System of Classification and Labelling of Chemicals;

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

TLV®/TWA = Threshold limit value - time-weighted average;

 $TLV @STEL = Threshold\ limit\ value - short-time\ exposure\ limit;$ 

VOC = Volatile Organic Compounds;

vPvB = very Persistent and very Bioaccumulative;

## 16.2 Ratings

Lubriflux Fettkartusche

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## **NFPA Ratings**



TOP, FLAMMABILITY: 3 - Severe Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE: -

#### **HMIS Ratings**



- 2\*- Moderate chronic Hazard
- 4 Extreme Hazard
- 0 Minimal Hazard
- X Personal protection rating to be supplied by user depending on use conditions

#### PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

**Modified position** 

2.2, 9.1

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