

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 19.07.2024

Version number 11

Revision: 19.07.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** RACING DYNAMIC Dry Lube**Article number:** 55060100070**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture Lubricant**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

POLO Motorrad und Sportswear GmbH

Polostr. 1

41363 Jüchen

Tel: 02165 84 40 200

Fax: 01265 84 40 450

E-Mail: info@polo-motorrad.com**Further information obtainable from:**

Safety Department

sicherheit@dr-stoecker.de**1.4 Emergency telephone number:**

INTERNATIONAL: +49 (0) 6132 / 84463 (GBK Gefahrgut Büro GmbH, Ingelheim)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02

GHS07

GHS08

GHS09

Signal word Danger**Hazard-determining components of labelling:**

pentane

tetra-n-butoxytitanium

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Hazard statements

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

H315 Causes skin irritation.

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- H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.
 H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P271 Use only outdoors or in a well-ventilated area.
 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.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
 · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<25%
CAS: 109-66-0 EINECS: 203-692-4 Reg.nr.: 01-2119459286-30	pentane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	10-<25%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	5-<10%
EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-<5%
CAS: 108-21-4 EINECS: 203-561-1	isopropyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	1-<5%
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	1-<5%

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CAS: 5593-70-4 EINECS: 227-006-8 Reg.nr.: 01-2119967423-33	tetra-n-butoxytitanium Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-<5%
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	<1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area and lay down.

In case of unconsciousness place patient stably in side position for transportation.

· **After inhalation:**

Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Entfettende Wirkung des Produktes durch Pflege mit einer milden Fettcreme ausgleichen.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:**

Sand

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

Water haze

· **For safety reasons unsuitable extinguishing agents:** Water spray

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

During heating or in case of fire poisonous gases are produced.

· 5.3 Advice for firefighters

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

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Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:

Keep contaminated washing water and dispose of appropriately.
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

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

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Store only in the original receptacle.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurised containers.

Further information about storage conditions:

Store under lock and key and out of the reach of children.
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

Storage class: 2 B**7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane, pure

AGW (Germany)	Long-term value: 2400 mg/m ³ , 1000 ppm 4(II);DFG
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74-98-6 propane

AGW (Germany)	Long-term value: 1800 mg/m ³ , 1000 ppm 4(II);DFG
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109-66-0 pentane

AGW (Germany)	Long-term value: 3000 mg/m ³ , 1000 ppm 2(II);DFG, EU, Y
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75-28-5 isobutane

AGW (Germany)	Long-term value: 2400 mg/m ³ , 1000 ppm 4(II);DFG
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108-21-4 isopropyl acetate

MAK (Germany)	Long-term value: 420 mg/m ³ , 100 ppm
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110-82-7 cyclohexane

AGW (Germany)	Long-term value: 700 mg/m ³ , 200 ppm 4(II);DFG, EU
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110-54-3 n-hexane

AGW (Germany)	Long-term value: 180 mg/m ³ , 50 ppm 8(II);DFG, EU, Y
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· DNELs

109-66-0 pentane

Oral	Long term - systemic effects, general population	214 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	432 mg/kg bw/day (worker)
	Long term - systemic effects, general population	214 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	3.000 mg/m ³ (worker)
	Long term - systemic effects, general population	643 mg/m ³ (general population)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Oral	Long term - systemic effects, general population	1.301 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	13.964 mg/kg bw/day (worker)
	Long term - systemic effects, general population	1.377 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	5.306 mg/m ³ (worker)
	Long term - systemic effects, general population	1.131 mg/m ³ (general population)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Oral	Long term - systemic effects, general population	1.301 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	13.964 mg/kg bw/day (worker)
	Long term - systemic effects, general population	1.377 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	5.306 mg/m ³ (worker)
	Long term - systemic effects, general population	1.131 mg/m ³ (general population)

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110-82-7 cyclohexane		
Dermal	Long-term - systemic effects, worker	2.016 mg/kg bw/day (worker)
Inhalative	Acute - local effects, worker	700 mg/m3 (worker)
	Acute - systemic effects, worker	700 mg/m3 (worker)
	Long-term - systemic effects, worker	700 mg/m3 (worker)
	Long-term - local effects, worker	700 mg/m3 (worker)
5593-70-4 tetra-n-butoxytitanium		
Inhalative	Long-term - systemic effects, worker	127 mg/m3 (worker)
110-54-3 n-hexane		
Oral	Long term - systemic effects, general population	4 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, worker	11 mg/kg bw/day (worker)
	Long term - systemic effects, general population	5,3 mg/kg bw/day (general population)
Inhalative	Long-term - systemic effects, worker	75 mg/m3 (worker)
	Long term - local effects, general population	16 mg/m3 (general population)
· PNECs		
109-66-0 pentane		
Aquatic compartment - freshwater		0,23 mg/l (freshwater)
Aquatic compartment - marine water		0,23 mg/l (marine water)
Aquatic compartment - water, intermittent releases		0,88 mg/l (intermittent release water)
Aquatic compartment - sediment in freshwater		1,2 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water		1,2 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil		0,55 mg/kg dw (soil)
sewage treatment plant		3,6 mg/l (sewage treatment plant)
110-82-7 cyclohexane		
Aquatic compartment - freshwater		0,207 mg/l (freshwater)
Aquatic compartment - marine water		0,0207 mg/l (marine water)
Aquatic compartment - water, intermittent releases		0,207 mg/l (intermittent release water)
Aquatic compartment - sediment in freshwater		3,627 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water		0,3627 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil		2,99 mg/kg dw (soil)
sewage treatment plant		3,24 mg/l (sewage treatment plant)
5593-70-4 tetra-n-butoxytitanium		
Aquatic compartment - freshwater		2,25 mg/l (freshwater)
sewage treatment plant		65 mg/l (sewage treatment plant)

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as 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.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

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· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

After each cleaning use treatment creams, for very dry skin greasy ointments.

Protective gloves

· Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: $\geq 0,7$ mm

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

For the mixture of chemicals mentioned below the penetration time has to be at least 240 minutes (Permeation according to EN 16523-1:2015: Level 5).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Physical state**

Aerosol

· Colour:

Colourless

· Odour:

Characteristic

· Odour threshold:

No further relevant information available.

· Melting point/freezing point:

No further relevant information available.

· Boiling point or initial boiling point and boiling range

Not applicable, as aerosol.

· Flammability

flammable aerosol

· Lower and upper explosion limit**· Lower:**

15 Vol %

· Upper:

1 Vol %

· Flash point:

-80 °C

· Auto-ignition temperature:

260 °C

· Decomposition temperature:

No further relevant information available.

· pH

Not applicable.

· Viscosity:**· Kinematic viscosity**

No further relevant information available.

Dynamic:

No further relevant information available.

· Solubility**· water:**

Not determined.

· Partition coefficient n-octanol/water (log value)

Does not apply to mixtures.

· Vapour pressure:

No further relevant information available.

· Density and/or relative density**· Density at 20 °C:**0,72-0,76 g/cm³ (DIN 51757)**· Relative density**

No further relevant information available.

· Vapour density

No further relevant information available.

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· 9.2 Other information**· Appearance:****· Form:**

Aerosol

· Ignition temperature:

260 °C

· Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Molecular formula**· Oxidising properties**

No further relevant information available.

· Evaporation rate

Not applicable.

· Information with regard to physical hazard classes**· Explosives**

Void

· Flammable gases

Void

· AerosolsExtremely flammable aerosol. Pressurised container:
May burst if heated.**· Oxidising gases**

Void

· Gases under pressure

Void

· Flammable liquids

Void

· Flammable solids

Void

· Self-reactive substances and mixtures

Void

· Pyrophoric liquids

Void

· Pyrophoric solids

Void

· Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable gases in contact with water

Void

· Oxidising liquids

Void

· Oxidising solids

Void

· Organic peroxides

Void

· Corrosive to metals

Void

· Desensitised explosives

Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.**· 10.2 Chemical stability****· Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.**· 10.4 Conditions to avoid**

Protect from heat and direct sunlight.

strong shocks

· 10.5 Incompatible materials: oxidizing agent**· 10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**· Acute toxicity** Based on available data, the classification criteria are not met.**· LD/LC50 values relevant for classification:**

106-97-8 butane, pure

Inhalative LC50/4 h 658.000 mg/l (rat)

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109-66-0 pentane		
Oral	LD50	>2.000 mg/kg (rat)
Inhalative	LC50/4 h	>20 mg/l (rat)
Hydrocarbons, C6, isoalkanes, <5% n-hexane		
Oral	LD50	>5.000 mg/kg (rat) (OECD401)
Dermal	LD50	>3.000 mg/kg (rabbit)
Inhalative	LC50/4 h	>10.000 mg/l (rat) (OECD403)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	>16.750 mg/kg (rat) (OECD 401)
Dermal	LD50	>3.350 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>259.354 mg/l (rat) (OECD 403)
108-21-4 isopropyl acetate		
Oral	LD50	3.000 mg/kg (rat)
110-82-7 cyclohexane		
Oral	LD50	>5.000 mg/kg (rat)
Dermal	ATE	>2.000 mg/kg (rabbit)
Inhalative	LC50	>32,88 mg/l (rat)
5593-70-4 tetra-n-butoxytitanium		
Oral	LD50	3.122 mg/kg (rat)

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**· Germ cell mutagenicity** Based on available data, the classification criteria are not met.**· Carcinogenicity** Based on available data, the classification criteria are not met.**· Reproductive toxicity** Based on available data, the classification criteria are not met.**· STOT-single exposure**

May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.**· Aspiration hazard**

May be fatal if swallowed and enters airways.

· Additional toxicological information:

Causes serious eye irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

· Repeated dose toxicity No further relevant information available.**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

· 11.2 Information on other hazards**· Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

106-97-8 butane, pure

EC10/5 h	658 mg/l (rat)
LC50/96 h	27,98 mg/l (fish)
EC50/96 h	7,71 mg/l (algae)

74-98-6 propane

LC50/96 h	27,98 mg/l (fish)
EC50/96 h	7,71 mg/l (algae)

109-66-0 pentane

NOEC 72 h	7,51 mg/l (Pseudokirchneriella subcapitata)
LC50/96 h	4,26 mg/l (Oncorhynchus mykiss)
LC50/72 h	10,7 mg/l (Pseudokirchneriella subcapitata)
EC50/48 h	2,7 mg/l (Daphnia magna)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

LC50/96 h	18,27 mg/l (fish)
EC50/48 h	31,9 mg/l (Daphnia magna)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

LC50/96 h	12 mg/l (fish)
EC50/48 h	17,06 mg/l (Daphnia magna)

75-28-5 isobutane

LC50/96 h	49,9 mg/l (fish)
EC50/96 h	19,37 mg/l (algae)

110-82-7 cyclohexane

ErC50/72 h	9,317 mg/l (algae)
LC50/96 h	4,5 mg/l (Pimephlas promelas)
EC50/48 h	0,9 mg/l (Daphnia magna)

110-54-3 n-hexane

LC50/96 h	12,51 mg/l (fish)
EC50/48 h	21,85 mg/l (Daphnia magna)

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

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· **Remark:** Toxic for fish

· Additional ecological information:

· General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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Water hazard class 2 (German Regulation) (Self-assessment): 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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number** UN1950
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** AEROSOLS, ENVIRONMENTALLY HAZARDOUS
- **IMDG** AEROSOLS, MARINE POLLUTANT
- **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**

· **ADR**



- **Class** 2.5F Gases.
- **Label** 2.1

· **IMDG**



- **Class** 2.1 Gases.
- **Label** 2.1

· **IATA**



- **Class** 2.1 Gases.
- **Label** 2.1

- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:** Product contains environmentally hazardous substances:
cyclohexane

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according to Regulation (EC) No 1907/2006, Article 31

Printing date 19.07.2024

Version number 11

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Trade name: RACING DYNAMIC Dry Lube

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· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 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. SW2 Clear of living quarters.
· 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.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
<hr/>	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
<hr/>	
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 57

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:**· Other regulations, limitations and prohibitive regulations**

822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.

ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind zu beachten.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

· Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Department issuing SDS: Department R&D**· Contact: Department R&D****· 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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

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DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
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

Sources

(EC) No 1907/2006 (REACH) as amended.
(EC) No. 1272/2008 (CLP) in the valid version
Guidance on the compilation of safety data sheets as amended (ECHA)
Guidance on labelling and packaging according to Regulation (EC) No 1272/2008 (CLP) as amended (ECHA)
Safety data sheets of the ingredients
ECHA homepage - Information on chemicals

DE-EU