

SAFETY DATA SHEET

PRODUCT NAME: VROOAM MARINE GEAR LUBE 90



According to EC Regulation 1907/2006 (REACH), Annex II, including amendments implemented by EC Regulation 2020/878

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

1.1 Product identification

Trade name : VROOAM Marine Gear Lube 90
Product code : 13437

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

Main use category Use of : Industrial use, Professional use, Consumer use
the substance or mixture : Transmission oil

1.3 Details of the supplier of the safety data sheet

VROOAM Powersports Lubricants INT. BV
Aventurijn 300 3316 LB Dordrecht
(NL) 0031 (0) 78 750 1632
www.vrooam-lubricants.com
info@vrooam-lubricants.com

• Further information available from: Product Safety Department

1.4. Emergency telephone number +31 (0) 78 750 16 32 (9:00 a.m. to 5:00 p.m. Monday to Friday)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Chronic aquatic toxicity, Category 3 Full text of H- and EUH-statements: see section 16

To the best of our knowledge, this product does not present any specific hazard if the usual rules of industrial hygiene are followed. must be complied with. Harmful to aquatic life with long lasting effects.

2.2 The labeling element

Labelling according to Regulation (EC) No 1272/2008 [CLP]
Signal word (CLP)

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Safety recommendations (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.

2.3 Other hazards

Contains no PBT and/or vPvB substances > 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain any substance included in the list established pursuant to Article 59(1) of REACH for having endocrine disrupting properties or one or more substances identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration greater than or equal to 0.1%.

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SECTION 3: Composition/information on ingredients

3.2 Mengels

Comments : Highly refined mineral oils and additives.

Name	Product identification	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Polysulfides, di-tert-Bu	butane (containing < 0.1% butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas (Comp.), H280	0,3-2,5%	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
C16-18-(even numbered, saturated and unsaturated)-alkylamines	EG-Nr: 627-034-4 REACH-nr: 01-2119473797-19	<0,3%	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:

Name	Product identification	Specific concentration limits (%)
Polysulfides, di-tert-Bu	CAS No.: 68937-96-2 EG-Nr: 273-103-3 REACH-nr: 01-2119540515-43	(46 < C 100) Skin Sens. 1B; H317

Comments : This highly refined oil contains <3% (w/w) DMSO extract, determined according to IP346.
Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

First aid general : If you feel unwell, seek medical advice/attention.
First aid after inhalation : Remove person to fresh air and keep comfortable for breathing.
First aid after skin contact : Wash skin with plenty of water.
First aid after eye contact : As a precaution, rinse eyes with water.
First aid after ingestion : If you feel unwell, call a poison control center or doctor/physician.

4.2 Most important acute and delayed symptoms and effects

Symptoms/effects : No additional information available.
Symptoms/effects after inhalation : Although no effects on human or animal health are known, this product is considered to present an inhalation hazard.
Symptoms/effects after skin contact : None under normal circumstances.
Symptoms/effects after eye contact : None under normal circumstances.
Symptoms/effects after ingestion : None under normal circumstances.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1 Fire extinguishing agents

Suitable extinguishing agents : Water spray. Dry powder. Foam. Carbon dioxide

Unsuitable extinguishing agents : Do not use a strong water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No immediate explosion hazard.

Hazardous decomposition products in case of fire : Possible formation of toxic fumes.

5.3 Advice for firefighters

Fire instructions : Fight fire from a safe distance and in a sheltered area. Do not enter the fire area without appropriate safety equipment, including respiratory protection.

Protection during firefighting : Do not intervene without suitable protective equipment. Self-contained breathing apparatus. Full protective clothing.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Stop

leak if safe to do so. Notify authorities if product enters drains or public waters. Contain leaked/spilled material to prevent material damage.

For persons other than the emergency services

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate contaminated area.

For emergency services : Do not intervene without appropriate protective equipment. For further information, see Section 8: "Exposure Controls/Personal Protection."

Protective equipment : Remove unnecessary personnel. Seal the leak if it is safe to do so.

Emergency procedures 6.2 Environmental precautions

Avoid release to the environment.

6.3 Containment and cleaning methods and materials

Before inclusion : Absorb spills with sand or earth. Contain spills with dikes or absorbents to prevent them from spreading and entering drains or rivers. If possible, stop the leak without risk.

Cleaning methods : Absorb spilled liquid with absorbent material.

Other information : Take waste or solid residues to an approved waste handling facility.

6.4 Reference to other sections

For further information, see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling of the substance or mixture

- | | |
|---|---|
| Additional hazards during processing | : Not expected to present a significant hazard under normal conditions of use. |
| Precautions for safe handling of the substance or mixture | : Ensure good ventilation in the processing area to avoid the formation of vapours. |
| Hygienic measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2 Conditions for safe storage, including any incompatibilities

- | | |
|---------------------|---|
| Technical measures | : Store in a cool, well-ventilated area away from heat. |
| Storage conditions | : Keep containers closed when not in use. Store in a cool, well-ventilated area away from heat. |
| Storage temperature | : 0 – 40 °C |
| Packaging material | : Always store the product in packaging made of the same material as the original packaging. |

7.3 Specific end use

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure values and biological limit values

MP Gear Oil 90	
EU - Indicative Occupational Exposure Limit (IOEL) 5	Product identification
Exposure limits/standards that can be set when handling this /product. When mists or fogs may occur, the following is recommended:	m³ - ACGIH TLV (inhalable fraction).

8.2. Exposure control measures

Appropriate engineering controls:

Ensure good ventilation of the workplace.

Personal protective equipment:

Wear recommended personal protective equipment.

Symbol(s) for personal protective equipment:



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Eye and face protection

Eye protection:

Safety glasses

Eye protection

Type	Scope of application	Features	Norm
Safety glasses	Droplets	Bright	IN 166

Skin protection

Skin and body

protection: Wear suitable protective clothing

Hand protection:

Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Norm
Reusable gloves	Nitrilrubber (NBR) 6 (> 480 minuten)		0.35	Bright	EN ISO 374

Protection of the hands

Other Skin Protection

Material selection of protective clothing:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls: Avoid

release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical condition	: Liquid :
Colour	brown.
Smell	: characteristic.
Odor threshold value	: Not available
Melting point	: Not applicable : -15 °C
Freezing point	- ASTM D5950 (pour point)
Boiling point	: Not available : Not
Flammability	applicable : Presents no
Explosive properties	specific fire or explosion hazard.
Lowest explosion limit value	: Not available : Not
Upper explosion limit value	available : 230 °C -
Flash point	ASTM D92 (COC)
Auto-ignition temperature	: Not available
Analysis temperature pH	: Not available
	: Not available

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Viscosity, kinematic	: 191 mm ² /s (40 °C) - ASTM D7042
Solubility	: Water: Insoluble / Poorly miscible
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapor pressure	: Not available
Vapor pressure at 50°C	: Not available : 0.895
Density	kg/l (15 °C) - ASTM D4052
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety features

VOC content : 0%

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with (strong) oxidizing substances.

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition

products No decomposition under normal storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

C16-18-(even numbered, saturated and unsaturated)-alkylamines

LD50 oral	1689 mg/kg (OECD 401 method)
LD50 dermaal rat	>2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not classified

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C16-18-(even numbered, saturated and unsaturated)-alkylamines	
pH	11,7 Temp.: 20 °C
Serious eye damage/eye irritation	: Not classified
C16-18-(even numbered, saturated and unsaturated)-alkylamines	
pH	11,7 Temp.: 20 °C
Respiratory/skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT single exposure	: Not classified
C16-18-(even numbered, saturated and unsaturated)-alkylamines	
STOT single exposure	May cause respiratory irritation.
STOT - repeated exposure	: Not classified
C16-18-(even numbered, saturated and unsaturated)-alkylamines	
NOAEL (oral, rat, 90 days)	3,25 mg/kg lichaamsgewicht Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Danger of inhalation	: Not classified
MP Gear Oil 90	
Viscosity, kinematic	191 mm²/s (40 °C) - ASTM D7042
C16-18-(even numbered, saturated and unsaturated)-alkylamines	
Viscosity, kinematic	5,245 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1 Toxicity

Ecology - general	: This product is not considered harmful to aquatic organisms and will not have long-term negative effects on the environment. Harmful to aquatic life with long-lasting effects.
Danger to the aquatic environment, (acute) in the short term	: Not classified :
Hazardous to the aquatic environment, (chronic) long-term	Harmful to aquatic life with long lasting effects.

Polysulfides, di-tert-Bu (68937-96-2)	
EC50 - Crustaceans [1]	63 mg/l
EC50 72h - Algae [1]	0,838 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96u - Algae [1]	>100 mg/l

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C16-18-(even numbered, saturated and unsaturated)-alkylamines	
LC50 - Fishing [1]	0,84 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) 4,21 mg/l
LC50 - Fishing [2]	Test organisms (species): Danio rerio (previous name: Brachydanio rerio) 0,32 mg/l Test
EC50 - Crustaceans [1]	organisms (species): Daphnia magna 0,98 mg/l Test
EC50 - Crustaceans [2]	organisms (species): Daphnia magna 0,46 mg/l Test
EC50 72h - Algae [1]	organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	0,38 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algen	0,04 mg/l (96h, Selenastrum capricornutum) 0,032
LOEC (chronic)	mg/l Test organisms (species): Daphnia magna Duration: '21 d' 0,013 mg/l Test
NOEC (chronic)	organisms (species): Daphnia magna Duration: '21 d' 0,013 mg/l (21d, Daphnia
NOEC chronic crustaceans	magna)

12.2. Persistence and degradability

Marine Gear lube 90	
Persistence and degradability	Not readily degradable
Polysulfides, di-tert-Bu (68937-96-2)	
Persistence and degradability	Not readily degradable
Biodegradation	13 % (Sturm, 28 d)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	
Persistence and degradability	Not readily degradable

12.3. Bioaccumulation

Polysulfides, di-tert-Bu (68937-96-2)	
Partition coefficient n-octanol/water (Log Kow)	6 (Octanol/water coefficient, 0,1 d)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	
BCF - Fishing [1]	500 mg/l (calculated value)
Partition coefficient n-octanol/water (Log Kow) 4.33 (25°C)	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other

adverse effects No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods Regional

waste legislation Waste
treatment methods

: Waste disposal in accordance with legal provisions.

: Do not allow to enter drains or watercourses.

Dispose of contents/packaging in accordance
with the sorting instructions of an approved collection company.

Recommendations for wastewater disposal

: Waste disposal in accordance with legal provisions.

Recommendations for disposal of products/
packaging

: Dispose of in a safe manner in accordance with local/national regulations.

Additional information

: Do not reuse empty containers. : 13 02 05* -

European Waste List (LoW, EC 2000/532)

non-chlorinated mineral engine, gear and lubricating oils

SECTION 14: Transport information

Compliant with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	BEHOLD	DNA	RID
14.1. VN number or ID number				
Not classified as dangerous according to transport regulations 14.2.				
Proper shipping name according to the UN model regulations				
Not regulated	Not regulated	14.3. Transport hazard class(es)	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packaging group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental				
hazards	Not regulated	Not regulated	Not regulated	Not regulated
No additional information available				

14.6. Special precautions for user

Road transport

Not regulated

Transport on inland waters

Not regulated

Transport on the open sea

Not regulated

Rail transport

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk in accordance with IMO instruments

Not applicable

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SECTION 15: Regulations

15.1. Specific safety, health and environmental regulations and legislation for the substance or mixture

EU regulations

REACH Annex XVII (substances with restricted use)

REACH list of restrictions (Annex XVII)		
Reference code	Applicable to	Indication or description
3(b)	Polysulfides, di-tert-Bu ; C16-18-(even numbered, saturated and unsaturated)-alkylamines	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 Substances or mixtures fulfilling the criteria for any
3(c)	MP Gear Oil 90 ; Polysulfides, di-tert-Bu ; C16-18-(even numbered, saturated and unsaturated)-alkylamines	of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (list of substances subject to authorisation)

Does not contain any substance(s) included in REACH Annex XIV (list of substances subject to authorisation)

REACH Candidate List (SVHC)

Does not contain any substance(s) included in the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Does not contain substances included in the PIC list (Regulation EU 649/2012 on the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Does not contain substances included in the POP list (Regulation EU 2019/1021 on organic pollutants)

Ozone Regulation (1005/2009)

Does not contain substances included in the list of ozone depleting substances (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) on the control of dual-use items

Does not contain a substance covered by the COUNCIL REGULATION (EC) on the control of dual-use items

VOC Directive (2004/42)

VOC content : 0%

Explosives Precursors Regulation (2019/1148)

Does not contain substances included in the list of explosives precursors (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Precursors Regulation (273/2004)

Does not contain substances included in the list of precursors for medicinal products (Regulation EC 273/2004 on the production and placing on the market of certain substances used in the illicit production of narcotic drugs and psychotropic substances)

National regulations

The Netherlands

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ABM category	: A(3) - harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
SZW list of carcinogenic substances	: None of the ingredients are present
SZW list of mutagenic substances	: None of the ingredients are present
SZW list of reprotoxic substances – Breastfeeding	: None of the ingredients are present
SZW list of reprotoxic substances – Fertility	: None of the ingredients are present
SZW list of reprotoxic substances – Development	: None of the ingredients are present

15.2. Chemical safety assessment No chemical safety assessment has been carried out

SECTION 16: Other information

Notification of changes		
Section	Modified item	Comments
	Date of revision	Altered
	Replaces	Altered
3	Composition and information on ingredients Changed	
4.1	First aid measures for first aid workers	Added
4.3	Other medical advice or treatment	Altered
9	Density	Altered
10.3	Possible hazardous reactions	Altered

Abbreviations and acronyms:	
DNA	Amended European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity assessment
BCF	Bioconcentration factor
Concentration	Biological limit value

Abbreviations and acronyms:	
THAT	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect Dose
DNEL	Derived no-effect level
EC No.	European Commission Number
EC50	Median effective concentration
IN	European standard
IARC	International Centre for Research on Cancer
BEHOLD	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Concentration that causes death in 50% of a test population
LD50	Dose that causes death in 50% of a test population (median lethal dose)
LOEL	Lowest dose or concentration at which an adverse effect was observed
NOAH	Concentration at which no harmful effect was observed

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NOEC	Concentration with no observed effects
OECD	Organisation for Economic Co-operation and Development, OECD
OIL	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Predicted no-effect concentration(s)
RID	Regulations concerning the international carriage of dangerous goods by rail
VIB	Safety data sheet
STP	Water purification plant
THZV	Theoretical oxygen demand (TZV)
TLM	Median Tolerance Limit
YOUR	Volatile organic compounds
CAS No.	Chemical Abstract Service - Nummer
N.E.G.	Not Elsewhere Mentioned
vPzB	Very persistent and very bioaccumulative, vPvB
ED	Hormone disruptor

Full text of H and EUH statements: Acute Tox. 4	
(Oral)	Acute toxicity (oral), Category 4 Hazardous
Aquatic Acute 1	to the aquatic environment, Acute, Category 1 Hazardous to
Aquatic Chronic 1	the aquatic environment, Chronic, Category 1 Hazardous to the
Aquatic Chronic 3	aquatic environment, Category 3 Aspiration hazard, Category 1
Asp. Tox. 1	Serious eye damage/eye irritation,
Eye Dam. 1	Category 1 Harmful if swallowed.
H302	

Full text of sentences H and EUH:	
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1	Skin corrosion/irritation, Category 1 Skin
Skin Sens. 1B	sensitization, Category 1B Specific
STOT RE 2	target organ toxicity — Repeated exposure, Category 2 Specific target organ toxicity
STOT SE 3	— Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for health, safety, and environmental purposes. It should not be construed as a guarantee of any specific property of the product.