# **SEAL GREASE FOR FREEHUB**

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : SEAL GREASE FOR FREEHUB Trade name Product group : Trade product Relevant identified uses of the substance or mixture and uses advised against <u>1.2.</u> 1.2.1. **Relevant identified uses** Intended for general public : Industrial use, Professional use, Consumer use Main use category : Grease Use of the substance/mixture

### 1.2.2. Uses advised against

No additional information available

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

SHIMANO EUROPE B.V. High Tech Campus 92 5656 AG Eindhoven The Netherlands T +31-402-612222 shimano.eu.sds@shimano-eu.com

### 1.4. Emergency telephone number

Emergency number

: +31-402-612222 Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP)	: P102 - Keep out of reach of children.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

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### 2.3. Other hazards

Other hazards

: Results of PBT and vPvB assessment : Not applicable. Risk of dust explosion.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Not applicable		
3.2. Mixtures		
Comments	: DMSO:<3%	

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

SECTION 4: First aid measures			
4.1. Description of first aid measure	<u>s</u>		
Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.		
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.		
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. Wash contaminated clothing before reuse.</li> </ul>		
Eyes contact	<ul> <li>Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.</li> </ul>		
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.		
4.2. Most important symptoms and effects, both acute and delayed			
Inhalation	: Inhalation of dust may cause irritation of the respiratory system.		
Skin contact	: Contact with dust may cause mechanical irritation or drying of the skin.		
Eyes contact	: Dust may cause painful eye irritation and tearing.		
Ingestion	: Health injuries are not known or expected under normal use.		
4.3. Indication of any immediate medical attention and special treatment needed			

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### Extinguishing media 5.1.

- Suitable extinguishing media : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray. : Strong water jet.
- Unsuitable extinguishing media

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5.2. Special hazards arising from the	e substance or mixture			
Specific hazards	: Not flammable. Heating will cause a rise in pressure with a risk of bursting. Risk of dust explosion.			
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).			
5.3. Advice for firefighters				
Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Avoid dust formation. Knock down/dilute dust cloud with water spray.			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self- contained breathing apparatus.			
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.			
SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel				
For non-emergency personnel	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.			

## 6.1.2. For emergency responders

For emergency responders

: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Stop leak if safe to do so. Dam up the solid spill. Take up mechanically<br/>(sweeping, shovelling) and collect in suitable container for disposal. Large<br/>spills: scoop solid spill into closing containers. This material and its container<br/>must be disposed of in a safe way, and as per local legislation. Avoid dust<br/>formation. Knock down/dilute dust cloud with water spray.

## 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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7.1. Precautions for safe handlin	Ig
Precautions for safe handling	<ul> <li>Keep out of the reach of children. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoic release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.</li> </ul>
Hygiene measures	: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage	including any incompatibilities
Technical measures	: Keep out of reach of children.
Storage conditions	<ul> <li>Keep container tightly closed. Store in a dry, cool and well-ventilated place. Bund storage facilities to prevent soil and water pollution in the event of spillage.</li> </ul>
Heat and ignition sources	<ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.</li> </ul>
Packaging materials	: Keep only in the original container.
<b>7.3. Specific end use(s)</b> Reference to other sections : 5.2.	
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
Additional information	: Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)

Personal protective equipment

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

adequately earthed.

: Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling. Apply measures to prevent dust explosions. Ensure equipment is

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Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: Nitrile rubber. Thickness : > 0,3 mm. Breakthrough time : 480'. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Dust formation. Use suitable eye protection (EN 166): Safety glasses with side shields
Body protection	: Wear suitable protective clothing
Respiratory protection	: Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask (EN 149). Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: P (EN 143)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

# **SECTION 9: Physical and chemical properties**

Physical state: SolidAppearance: Solid.Colour: miky white.Odour: slight.Odour threshold: No data availablepH: No data availablepH solution: No data availableRelative evaporation rate (butylacetate=): No data availableMetting / freezing point: No data availableInitial boiling point and boiling range: No data availableFlash point: No data availableFlash point: No data availablePatrongintion temperature: No data availableParmability (solid, gas): No data availableVapour pressure: No data availableVapour density: No data availableVapour density: No data availableVapour density: No data availableSolubility: No data availableSolubility: No data availableVapour density: No data availableSolubility: No data available </th
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Relative density     : No data available       Solubility     : Water: Insoluble
Solubility : Water: Insoluble
Partition coefficient n-octanol/water : Not applicable
Kinematic viscosity : Not applicable
Dynamic viscosity : Not applicable
Explosive properties : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits : Not applicable
Particle size : Not available

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Particle size distribution	:	Not available
Particle shape	:	Not available
Particle aspect ratio	:	Not available
Particle aggregation state	:	Not available
Particle agglomeration state	:	Not available
Particle specific surface area	:	Not available
Particle dustiness	:	Not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

#### <u>10.1.</u> **Reactivity**

None under normal conditions. Reference to other sections: 10.4 & 10.5.

#### <u>10.2</u>. **Chemical stability**

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight. See Section 7 for information on safe handling.

### 10.5. Incompatible materials

No information available. See Section 7 for information on safe handling.

#### 10.6. Hazardous decomposition products

Reference to other sections 5.2.

#### **SECTION 11: Toxicological information** . . . .

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)		
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available		
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available		
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)		
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)		
Reproductive toxicity STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met)		

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	: Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met)
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Kinematic viscosity	Not applicable
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

# 11.2. Information on other hazards

# 11.2.1. Endocrine disrupting properties

Adverse health effects caused by : endocrine disrupting properties	The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
11.2.2 Other information	
Other information :	Symptoms related to the physical, chemical and toxicological characteristics,For further information see section 4

# **SECTION 12: Ecological information** 12.1. Toxicity

<u>12.1. TOXICITY</u>	
Environmental properties	: Not classified (CLP).
Hazardous to the aquatic environment, short–term (acute)	: Not classified
Hazardous to the aquatic environment, long–term (chronic)	: Not classified

# 12.2. Persistence and degradability

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Persistence and degradability	No additional information available.

# 12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water Not applicable		
Bioaccumulative potential No additional information available.		

# 12.4. Mobility in soil

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Mobility in soil	No data available	

# 12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	Not applicable	

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# 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
12.7. Other adverse effects	
Other adverse effects	: No data available

#### **SECTION 13: Disposal considerations** <u>13.1.</u> Waste treatment methods Product/Packaging disposal : Avoid release to the environment. Dispose of empty containers and wastes recommendations safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue : Waste codes should be assigned by the user, preferably in discussion with the (2001/573/EC, 75/442/EEC, 91/689/EEC) waste disposal authorities

# **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN numbe	<u>r</u>			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name		I	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport I	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ntal hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	No	supplementary information	on available	1

#### Special precautions for user 14.6.

Special precautions for user

: No data available

### - Overland transport

Not applicable

# - Transport by sea

Not applicable

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## - Air transport

Not applicable

# - Inland waterway transport

Not applicable

### - Rail transport

Not applicable

## 14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

# **SECTION 15: Regulatory information**

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

## 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

### 15.1.2. National regulations

### France

No ICPE	Installations classées Désignation de la rubrio	que	Code Régime	Rayon
na	Not Applicable		na	na
Germany				
Regulatory ref	erence	: WGK 2, Significantly hazardous to water (Classifica Annex 1)	tion according t	o AwSV,
Hazardous Inci BImSchV)	dent Ordinance (12.	: Is not subject of the 12. BImSchV (Hazardous Incide	nt Ordinance)	
Netherlands				
Waterbezwaar	lijkheid	: B (4) - Weinig schadelijk voor in het water levende	organismen	
SZW-lijst van k stoffen	kankerverwekkende	: None of the components are listed		
SZW-lijst van r	nutagene stoffen	: None of the components are listed		
SZW-lijst van r Borstvoeding	eprotoxische stoffen –	: None of the components are listed		
SZW-lijst van r Vruchtbaarhei	eprotoxische stoffen – d	: None of the components are listed		
SZW-lijst van r Ontwikkeling	eprotoxische stoffen –	: None of the components are listed		

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# 15.2. Chemical safety assessment

Not applicable

# **SECTION 16: Other information**

Indication of changes:		
1	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	Modified
2.3	ED text	Added
8.2	Hand protection	Modified
11.2	Adverse health effects caused by endocrine disrupting properties	Added
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added
15	Regulatory information	Modified

### Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
_	STOT = Specific Target Organ Toxicity
	TWA = time weighted average

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raining advice: Training staff on good practice.ther information: Classification - Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment hazard		VOC = Volatile organic compounds
atasheetraining advice: Training staff on good practice.ther information: Classification - Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of Physicochemical hazard assessment: Information given is based on tests of		WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
ther information : Classification - Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests of	Sources of key c latasheet	ata used to compile the : ECHA (European Chemicals Agency). Supplier sds. LOLI.
Physicochemical hazard assessment: Information given is based on tests of	raining advice	: Training staff on good practice.
the mixture itself.	Other informatic	<ul> <li>Classification - Assessment method: CLP Calculation method (Article 9).</li> <li>Physicochemical hazard assessment: Information given is based on tests on the mixture itself.</li> </ul>

Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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