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

#### 1.1. Product identifier

Product form : Mixture

Trade name : Shadow RD+ Grease Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Grease

### 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.

Extra phrases : EUH210 - Safety data sheet available on request.

## 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

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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%

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Dodecene, polymer with 1-decene, hydrogenated	(CAS-No.) 151006-60-9 (EC-No.) 604-767-8	< 55	Asp. Tox. 1, H304
1,3,5-triazine-2,4,6(1H,3H,5H)-trione, compound with 1,3,5-triazine-2,4,6-triamine (1:1)	(CAS-No.) 37640-57-6 (EC-No.) 253-575-7	< 10	STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

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 : 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.

Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. In case of

doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Do not induce vomiting without medical

advice. Get medical advice/attention.

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

Inhalation : Health injuries are not known or expected under normal use.

Skin contact : Health injuries are not known or expected under normal use.

Eyes contact : Health injuries are not known or expected under normal use.

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**

### 5.1. Extinguishing media

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

Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : Not flammable. Heating will cause a rise in pressure with a risk of bursting.

Hazardous decomposition products in

case of fire

: Carbon oxides (CO, CO2). Sulphur oxides.

### 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.

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. Avoid contact with skin, eyes and

clothing.

#### 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. This material and its container must be disposed of in

a safe way, and as per local legislation.

## 6.4. Reference to other sections

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

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Keep out of reach of children. Provide adequate ventilation. Use personal

protective equipment as required. Concerning personal protective equipment to use, see section 8. 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). Avoid release to the

environment.

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.

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

Technical measures : Keep out of reach of children.

Storage conditions : Keep container tightly closed. Store in a dry, cool and well-ventilated place. Do

not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of

spillage.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep out of direct sunlight.

Special rules on packaging : Keep in properly labelled containers.

Packaging materials : Keep only in the original container. Containers which are opened should be

properly resealed and kept upright to prevent leakage.

7.3. Specific end use(s)
Reference to other sections: 1.2.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Shadow RD+ Grease		
USA - ACGIH	ACGIH OEL TWA	(8h) 5 mg/m <sup>3</sup>
1,3,5-triazine-2,4,6(1H,3H,5H)-trione, compound with 1,3,5-triazine-2,4,6-triamine (1:1) (37640-57-6)		
1,3,5-triazine-2,4,6(1H,3H	5H)-trione, compound with 1,3,5-triazine-2,4,6-t	riamine (1:1) (37640-57-6)

Additional information : Recommended monitoring procedures : Personal air monitoring. Room air

monitoring

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit

releases, dispersion and exposure. See Section 7 for information on safe

handling.

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.

Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Not

determined. Thickness: Not determined. Breakthrough time: refer to the recommendations of the supplier. 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 : Not required for normal conditions of use. Use suitable eye protection (EN

166): Safety glasses with side shields

Body protection : Wear suitable protective clothing. Impervious clothing. Overalls, apron and

boots recommended.

Respiratory protection : No respiratory protection needed under normal use conditions

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**

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

Physical state : Paste

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Appearance : Paste.
Colour : light brown.
Odour : slight.

Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting / freezing point : No data available
Freezing point : No data available
Initial boiling point and boiling range : No data available

Flash point : > 200 °C Seta closed cup

Auto-ignition temperature : Not applicable Decomposition temperature : No data available Flammability (solid, gas) : Not flammable Vapour pressure : No data available Vapour density : No data available Relative density : No data available : 1 g/cm<sup>3</sup> (25°C) Density Solubility : Water: Negligible 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 applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state : Not applicable Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

## 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

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# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

### 10.2. 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. Direct sunlight. See Section 7 for information on safe handling.

## 10.5. Incompatible materials

Acids. Oxidising agents. Hydrogen peroxide. Permanganates. perchlorate. Halogens. Halogenated compounds. 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)

LD50/oral/rat	2500 mg/kg
LD50 oral	2500 mg/kg
LC50/inhalation/4h/rat	> 5,1 mg/l/4h
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	: Not classified (Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met
Shadow RD+ Grease	
Kinematic viscosity	Not applicable
Other information	: Symptoms related to the physical, chemical and toxicological characteristics

For further information see section 4.

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## 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

Environmental properties : Not classified (CLP).

Hazardous to the aquatic environment,

short-term (acute)

: Not classified

Hazardous to the aquatic environment, : Not classified

long-term (chronic)

1,3,5-triazine-2,4,6(1H,3H,5H)-trione, compound with 1,3,5-triazine-2,4,6-triamine (1:1) (37640-57-6)	
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Danio rerio [static])

## 12.2. Persistence and degradability

Shadow RD+ Grease	
Persistence and degradability	No additional information available.

## 12.3. Bioaccumulative potential

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

## 12.4. Mobility in soil

Shadow RD+ Grease	
Mobility in soil	No data available

## 12.5. Results of PBT and vPvB assessment

Shadow RD+ Grease	
Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria

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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**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Avoid release to the environment. Dispose of empty containers and wastes 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 (2001/573/EC, 75/442/EEC, 91/689/EEC)

: Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ili accordance with Al	DR / RID / IMDG / IATA /	ADN		
ADR	IMDG	IATA	ADN	RID
14.1. UN number				·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper sh	nipping name	<u>.</u>		•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	zard 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 grou	p	·		·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environment	al hazards	•	•	·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	No	supplementary information	on available	<b>.</b>

## 14.6. Special precautions for user

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 : Not applicable.

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) 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

1-Dodecene, polymer with 1-decene, hydrogenated

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 rubrique	Code Régime	Rayon
na	Not Applicable	na	na

#### Germany

Regulatory reference

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12.

BlmSchV)

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Netherlands

: B (4) - Weinig schadelijk voor in het water levende organismen Waterbezwaarlijkheid

SZW-lijst van kankerverwekkende

stoffen

: None of the components are listed

: None of the components are listed

SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen -

: None of the components are listed

Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

: None of the components are listed

SZW-lijst van reprotoxische stoffen -

Ontwikkeling

: None of the components are listed

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# Denmark

Recommendations Danish Regulation

: Pregnant/breastfeeding women working with the product must not be in direct contact with the product

# 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
5.2	Specific hazards	Modified
10.1	Reactivity	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 Explosive Limit/Upper Explosive 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

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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
VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : Supplier sds. ECHA (European Chemicals Agency). LOLI.

datasheet

Training advice : Training staff on good practice.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).

Physicochemical hazard assessment: Information given is based on tests on

the mixture itself.

#### Full text of H- and EUH-statements:

Asp. Tox. 1	Aspiration hazard, Category 1	
EUH210	Safety data sheet available on request.	
H304	May be fatal if swallowed and enters airways.	
H373	May cause damage to organs through prolonged or repeated exposure.	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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