

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name Internal Hub Grease
Unique Formula Identifier (UFI) HM00-Q0ND-400D-FGY8

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

Identified Use(s) Lubricant.
Uses Advised Against Use only for intended applications.

1.3 Details of the supplier of the safety data sheet

Manufacture & Distributor SHIMANO EUROPE B.V.
Address High Tech Campus 92, 5656 AG Eindhoven, The Netherlands
Emergency and Phone number +31-402-612222 (Business Hours Only)
E-mail shimano.eu.sds@shimano-eu.com

1.4 Emergency telephone number

Emergency telephone +31-402-612222 (Only available during office hours.)

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)

United Kingdom National Poisons Information Service (Newcastle Centre)
Regional Drugs and Therapeutics Centre, Wolfson Unit
Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle
0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Eye Dam. 1 :Causes serious eye damage.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Internal Hub Grease

Hazard Pictogram(s)



GHS05

Signal Word(s)

Danger

Hazard Statement(s)

H318: Causes serious eye damage.

Percent of the mixture consists of ingredient(s) of unknown acute toxicity: Oral (2.0-3.4)) Dermal (2.0-3.4)) Inhalation (2.0-3.4))

% of the mixture consists of components of unknown hazards to the aquatic environment:

Precautionary Statement(s)

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

Unique Formula Identifier (UFI)

HM00-Q0ND-400D-FGY8

Contains:

Calcium dihydroxide

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB. Endocrine disrupting properties : None. (This is based on information currently available.)

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Lubricating oils**	74869-22-0	278-012-2 01-2119495601-36-XXXX	70-90	Not classified	None
Calcium dihydroxide	1305-62-0	215-137-3 01-2119475151-45-XXXX	>5, <10	Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335	GHS05 GHS07
Bentonite*	1302-78-9	215-108-5	2.5 - 4.1	Not classified	None
Quaternary ammonium salt*	Confidential	Confidential	2.0 - 3.4		None
Graphite*	7782-42-5	231-955-3	2.0 - 3.5	Not classified	None
Antioxidant	125643-61-0	406-040-9	0.5 -	Aquatic Chronic 4 H413	None

			2.0		
Additive*	Confidential	Confidential	1.0 - 2.0	Not classified.	None
Quartz (SiO ₂)*	14808-60-7	238-878-4	<0.1	Not classified	None

*: Voluntary disclosure.

** : Note L :

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Contains no non-classified vPvB substances.

Contains a non-classified substance with a Union workplace exposure limit. Crystalline Silica Dust (14808-60-7)

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Get medical attention immediately. Refer to special instructions/safety data sheet.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Wash skin with water. If symptoms develop, obtain medical attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

Ingestion

Wash out mouth with water. Do not induce vomiting. If symptoms develop, obtain medical attention.

Advice for first aider

Wear appropriate personal protective equipment, avoid direct contact.

4.2 Most important symptoms and effects, both acute and delayed

Eye Contact : Causes serious eye damage. Pain, Redness, Watering of eyes.

Skin Contact : Causes mild skin irritation. Prolonged contact may cause dryness of the skin.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

Foam, Carbon dioxide, Water fog or dry powder.

Unsuitable extinguishing media

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition. May decompose in a fire giving off toxic fumes. :

Carbon monoxide, Carbon dioxide

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Evacuate the area and keep personnel upwind. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective equipment to comply with good occupational hygiene practice. Wash hands and exposed skin after use.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up

Small spillages: Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Large spillages: Keep unnecessary and unprotected personnel away from the spillage. Transfer to a container for disposal. Seal containers and label them. Consult an accredited waste disposal contractor or the local authority for advice.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke at the work place. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers properly sealed when not in use.

Storage temperature

≤ 40°C

Storage life

Stable under normal conditions.

Incompatible materials

Oxidising agents.

7.3 Specific end use(s)

Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note

Calcium dihydroxide	1305-62-0		1		4	IOELV, (7.1)
Crystalline Silica Dust	14808-60-7		0.1			CM, (7.1)

Region Source
EU Indicative Occupational Exposure Limit Value

Remark Notes
IOELV Indicative Occupational Exposure Limit Values.
(7.1) Respirable fraction.
CM Carcinogens or Mutagens Occupational Exposure Limit Values.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear protective eyewear (goggles, face shield, or safety glasses). Wear eye protection with side protection (EN ISO 16321-1). Wear chemical resistant protective eye glasses.



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Recommended: Half-face mask (DIN EN 140) .Filter type : Vapour., Dust, Mist filter



Thermal hazards

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

8.2.3. Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid. Semi-solid.
Colour	Black.
Odour	Slight
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	Not known.
Flammability	Not applicable.
Lower and upper explosion limit	Not known.
Flash Point	Not applicable.
Auto-ignition temperature	Not known.

Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Insoluble in water. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	Not known.
Relative vapour density	Not known.
Particle characteristics	Not known.

9.2 Other information

Volatility rate	The product is non-volatile.
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SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Can react with - Oxidising agents.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react with - Oxidising agents.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Oxidising agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion	Calculation method : Not classified. Based on available data, the classification criteria are not met. Lubricating oils : LD50 (oral,rat) mg/kg: 5000-15000
Acute toxicity - Skin Contact	Calculation method : Not classified. No information available.
Acute toxicity - Inhalation	Calculation method : Not classified. No information available.
Skin corrosion/irritation	Calculation method : Causes mild skin irritation. Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Calculation method : Causes serious eye damage. Causes serious eye damage.

Skin sensitization data	Calculation method : Not classified. No information available.
Respiratory sensitization data	Calculation method : Not classified. No information available.
Germ cell mutagenicity	Calculation method : Not classified. No information available.
Carcinogenicity	Calculation method : Not classified. Based on available data, the classification criteria are not met. Lubricating oils : IARC Classification: Group 3. Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. Quartz (SiO ₂) : IARC Classification: Group 1. Quartz (SiO ₂) is kneaded in the product, it does not exist as respirable particles.
Reproductive toxicity	Calculation method : Not classified. No information available.
Lactation	Calculation method : Not classified. No information available.
STOT - single exposure	Calculation method : Not classified. Based on available data, the classification criteria are not met.
STOT - repeated exposure	Calculation method : Not classified. No information available.
Aspiration hazard	Calculation method : Not classified. No information available.

11.2 Information on other hazards

Route(s) of entry	Skin, Eyes, Ingestion, Inhalation, Health effects: See section 4.2.
Endocrine disrupting properties	Does not cause endocrine disruption.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity - Aquatic invertebrates	Not classified.
Toxicity - Fish	Not classified.
Toxicity - Algae	Not classified.
Toxicity - Sediment Compartment	Not known.
Toxicity - Terrestrial Compartment	Not known.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Insoluble in water. The product is non-volatile. The product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

Does not cause endocrine disruption.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of this material and its container as hazardous waste. Dispose of empty containers and wastes safely.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Maritime transport in bulk according to IMO instruments

Not known

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Not listed

Concern for Authorisation

REACH: ANNEX XIV list of substances Not listed
subject to authorisation

REACH: Annex XVII Restrictions on the Not listed
manufacture, placing on the market and
use of certain dangerous substances,
mixtures and articles

Community Rolling Action Plan (CoRAP) Not listed
Regulation (EU) N° 2019/1021 of the Not listed
European Parliament and of the Council
on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed
substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the Not listed
European Parliament and of the Council
concerning the export and import of
hazardous chemicals

National regulations

Other Not known

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions 1, 2, 3, 11, 12, 16
or new statements:

Training advice: Ensure operatives are trained to minimise exposure. Only trained personnel should
use this material.

Date of Revision: 07-11-2024

Revision: 4

LEGEND

Hazard Pictogram(s)



GHS05

GHS07: GHS: Exclamation mark

Hazard classification

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Eye Dam. 1 : Serious eye damage/irritation, Category 1

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

SAFETY DATA SHEET

Date of First Issue:

06-11-2019

Date of Revision:

07-11-2024

Aquatic Chronic 4 : Hazardous to the aquatic environment, Chronic, Category 4

Hazard Statement(s)

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statement(s)

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

Acronyms

ATE : Acute Toxicity Estimate

CAS : Chemical Abstracts Service

CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP)

data used to compile the SDS

Disclaimers

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