

SAFETY DATA SHEET

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

1.1. Product identifier

Product name INTERNAL HUB GREASE
UFI 22J4-6VPS-3C07-JUJK

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

Identified uses Lubricant.
Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Manufacturer and Distributor : SHIMANO EUROPE B.V.
Address : High Tech Campus 92, 5656 AG Eindhoven, The Netherlands
Emergency and Phone number : +31-402-612222
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

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Eye Dam. 1 - H318
Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger
Hazard statements H318 Causes serious eye damage.
Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
Supplemental label information AT(d) 2.0-3.4% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
AT(i) 2.0-3.4% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.
AT(o) 2.0-3.4% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
Contains 2.0-3.4 % of components with unknown hazards to the aquatic environment.

Contains Calcium dihydroxide

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Lubricating oils			70-90%
CAS number: 74869-22-0	EC number: 278-012-2	REACH registration number: 01-2119495601-36-XXXX	
Classification Not Classified			
Calcium dihydroxide			>5%,<10%
CAS number: 1305-62-0	EC number: 215-137-3	REACH registration number: 01-2119475151-45-XXXX	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335			
Bentonite			2.5-4.1%
CAS number: 1302-78-9	EC number: 215-108-5		
Classification Not Classified			
Graphite			2.0-3.5%
CAS number: 7782-2-5	EC number: 231-955-3		
Classification Not Classified			
Quaternary ammonium salt			2.0-3.4-%
CAS number: Proprietary	EC number: Proprietary		
Classification Not Classified			
Additive			1.0-2.0%
CAS number: Proprietary	EC number: Proprietary		
Classification Not Classified			
Antioxidant			0.5-2.0%
CAS number: 125643-61-0	EC number: 406-040-9		
Classification Aquatic Chronic 4 - H413			
Quartz (SiO ₂)			<0.3%
CAS number: 14808-60-7	EC number: 238-878-4		
Classification Not Classified			

The full text for all hazard statements is displayed in Section 16.

Composition comments

Voluntary disclosure.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

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

Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use foam, carbon dioxide, dry powder or fog (reinforced liquids) to extinguish.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions during firefighting Keep unnecessary and unprotected personnel away. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Remove combustibles from the vicinity quickly. Keep surrounding areas cool by spraying water. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Do not touch or walk into spilled material. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Small Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: Keep unnecessary and unprotected personnel away from the spillage. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Precautionary measures to prevent the occurrence of secondary hazards Eliminate all sources of ignition. Inform authorities if large amounts are involved.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. All handling should only take place in well-ventilated areas. Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid the formation of mists. Keep container tightly sealed when not in use. Keep at temperature not exceeding 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feeding stuffs. Avoid contact with oxidising agents. Avoid mixing with: Water, moisture. Foreign substances.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep container tightly closed and in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep at temperature not exceeding 40°C/104°F. Avoid exposure to high temperatures or direct sunlight. Store away from incompatible materials (see Section 10). Avoid contact with oxidising agents. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Store in accordance with local regulations.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Calcium dihydroxide

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 4 mg/m³

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation. If there is a risk of generation of vapour/mist/dust: Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Provide eyewash station and safety shower.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical resistant gloves required for prolonged or repeated contact. The most suitable glove should be chosen in consultation with the glove supplier /manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Frequent changes are recommended.

Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Organic vapour filter. Dust and mist filter.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Semi-solid
Colour	Black
Odour	Slight.
Odour threshold	Not available.
pH	Not applicable.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	230°C *
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Flammable/combustible materials.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Volatility	The product is non-volatile.
Comments	* : Main constituent.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Oxidising agents.
See the other subsections of this section for further details.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.
Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.
Keep away from sources of ignition - No smoking.

10.5. Incompatible materials

Materials to avoid Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Routes of exposure Skin , Eyes , Ingestion , Inhalation , Health effects: See section 4.2.

Acute toxicity - oral

Summary Based on available data the classification criteria are not met.

Acute toxicity - dermal

Summary Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Summary Based on available data the classification criteria are not met.

Skin corrosion/irritation

Summary Based on available data the classification criteria are not met.

Serious eye damage/irritation

Summary Causes serious eye damage.

Respiratory sensitisation

Summary Based on available data the classification criteria are not met.

Skin sensitisation

Summary Based on available data the classification criteria are not met.

Germ cell mutagenicity

Summary Based on available data the classification criteria are not met.

Carcinogenicity

Summary Based on available data the classification criteria are not met.
Quartz (SiO₂) is kneaded in the product, it does not exist as respirable particles.

IARC carcinogenicity Contains a substance/a group of substances which may cause cancer.
IARC Group 1 Carcinogenic to humans.

Reproductive toxicity

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Summary Based on available data the classification criteria are not met.

Aspiration hazard

Summary Based on available data the classification criteria are not met.

Toxicological information on ingredients.

Lubricating oils

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 5000-15000 mg/kg, Oral, Rat

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Quartz (SiO₂)

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Summary Based on available data the classification criteria are not met.

Chronic aquatic toxicity

Summary Based on available data the classification criteria are not met.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility The product is insoluble in water. The product is non-volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Complied by: SHIMANO INC.

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

ATE: Acute Toxicity Estimate.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Eye Dam. = Serious eye damage

Classification procedures according to Regulation (EC) 1272/2008

Eye Dam. 1 - H318: : Calculation method.

Training advice

Read and follow manufacturer's recommendations. Ensure operatives are trained to minimise exposure.

Only trained personnel should use this material.

Revision comments This is the first issue.

Revision date 28/06/2021

Revision 1

Hazard statements in full
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H413 May cause long lasting harmful effects to aquatic life.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.