

SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name : **ROLLER BRAKE GREASE**

Identification of Substance/Preparation

GREASE

Application : Industrial Lubricating Grease

SDS No. : RBG970401-Eng

Manufacturer and Distributor : SHIMANO NORTH AMERICA BICYCLE, INC.

Address : One Holland, Irvine, California 92618 U.S.A.

Emergency and Phone number : +1-949-951-5003 (Business Hours Only)

Manufacturer and Distributor : SHIMANO EUROPE B.V.

Address : High Tech Campus 92 NL-5656 AG Eindhoven, The Netherlands

Emergency and Phone number : +31-40-2612222 (Business Hours Only)

E-mail : shimano.eu.sds@shimano-eu.com

Manufacturer and Distributor : SHIMANO INC.

Address : 3-77 Oimatsu-cho Sakaiku Sakai OSAKA 5908577, JAPAN

Emergency and Phone number : 0570-031961 (Business Hours Only)

2 HAZARDS IDENTIFICATION

Hazards Category : Carcinogenicity: Category 1A
Specific Target Organ Systemic Toxicity(Single Exposure): Category 1
Specific target organ systemic toxicity(Repeated exposure): Category 1

The one without the description cannot be classified.

Allocation of Label Elements

Pictogram : Health Hazard



Signal Word : Danger

Hazard Statement : May cause cancer

Cause damage to organs

Causes damage to organs through prolonged or repeated exposure

3 COMPOSITION/INFOTMATION ON INGREDIENTS

Ingredients and Contents

Component name	CAS number	wt%
Synthetic oil	Trade secret	70~80
Molybdenum disulfide	1317-33-5	5~10
Talc	14807-96-6	1~5
2-Oxo-4-methyl-1,3-dioxolan	108-32-7	1~5
Bentonite	Trade secret	5~15
Quartz	14808-60-7	<1

4 FIRST-AID MEASURES

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
: Call a physician if you feel unwell.

Skin : Wash with plenty of soap and water.
: Call a physician if you feel unwell.

Eye : Immediately flush eyes with plenty of water for at least 15 minutes.
: Call a physician.

Ingestion : Rinse mouth. Do not induce vomiting.
: Call a physician.

5 FIRE-FIGHTING MEASURES

Extinguishing Media : Dry chemical, carbon dioxide(CO₂), and foam

Specific Fire Fighting : Must not use water to extinguish fires.
Quickly removed from the surrounding flammable.
The use of extinguishing agents specified.
Fire fighting is done from the windward
On small fires use carbon dioxide (CO₂) or dry chemical.
On large fires use dry chemical or foam.
Sealed containers that are exposed to high temperatures over the water to cool.

Protection for Fire-fighter : Wear full body protective clothing with breathing apparatus.

6 ACCIDENTAL REALEASE MEASURES

Personal Precautions : Wear protective equipment in case of operation.

Environmental Precautions : Avoid release to the environment.

Methods for Cleaning Up : Remove potential ignition source in vicinity as soon as possible.
Prepare extinguishing agent.
Prevent leakage by enclosing with nonflammables and collect into empty container by scoop or the like.
Absorbed to non-flammable dry sand, if a large amount of spill to prevent enclosed in embankment.
Spilled material is collected in a container that can be sealed, then remove to safe place.
Deposits, waste treatment is based on the local regulations.
Working from the windward, to evacuate people downwind.

7 HANDLING AND STORAGE

- Handling** : Use in a well ventilated area.
Keep away from heat, spark and flames.
Use spark-proof tools and explosion-proof equipment.
After handling, wash well hands and face and rinse your mouth.
Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.
Leakage, overflow, to prevent scattering, we do not generate steam in vain.
In the handling area and deny unnecessary entry.
Resting place shall not bring contaminated protective equipment such as gloves.
Wear protective equipments when risk of exposure occurs.
To work in an enclosed area that you work with appropriate protective equipment with a local exhaust ventilation sufficient.
- Precautions** : Do not breathe vapor or mist.
Handling of the outdoors, as much as possible to work from the windward.
- Handling Precautions for Safety** : Avoid physical damage to containers.
Keep containers securely sealed when not in use.
- Storage** : Fire prohibited strictly.
Keep away from sources of ignition.
Store in a cool, dry, well-ventilated area away from incompatible substances.
Separate from oxidizing materials.
Store in a tightly closed container.
- Safe containers and packaging materials** : None in particular.

8 EXPOSURE/PERSONAL PROTECTION

- Engineering Controls** : Handling equipment is used explosion-proof.
: Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.
: That the equipment and shall become hot, and the source of ignition in the vicinity of the location, such as handling not been placed.
: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limit Values

Component name	ACGIH
Molybdenum disulfide	TWA 3 mg/m3
Quartz	TWA 0.025mg/m3®

Personal Protective Equipment

- Respiratory Protection** : Wear a gas mask for organic gas as required.
- Skin Protection** : Oil-resistant gloves.
- Eye Protection** : Wear chemical worker's goggles.
- Skin and body protection** : such as long-sleeved work clothes.
- Hygiene measures** : Do not eat, drink, or soke during work.
Replacement of the adsorbent, such as the mask is performed each time or use plans.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Semi-solid
Color	:	Black
Odor	:	Oil odor
pH	:	Not available
Boiling Point(°C)	:	Not available
Melting Point(°C)	:	Not available
Flash point(°C)	:	240(Base oil)
Auto-ignition Temperature(°C)	:	Not available
Flammability or Explosive Limits		
Lower	:	Not available
Upper	:	Not available
Vapor Pressure (KPa)	:	Not available
Vapor Density	:	Not available
Relative density(g/cm3)	:	1.06
Solubility	:	Insoluble in water
Partition Coefficient:	:	Not available
Decomposition Temperature(°C)	:	Not available

1 0 STABILITY AND REACTIVITY

Stability : Stable under normal temperatures and pressures.

Reactivity : No self-reactive

Conditions to Avoid : Heat, flames, ignition sources and incompatibles.

Hazardous Decomposition Products

: Carbon monoxide, carbon dioxide and other oxidized substances.

1 1 TOXICOLOGICAL INFORMATION

Chemical name	Acute toxicity (oral)	Acute toxicity (dermal)	Acute toxicity (inhalation: gas)	Acute toxicity (inhalation : vapor)	Acute toxicity (inhalation : dust, mist)	Skin corrosion irritation	Serious eye damage eye irritation
Synthetic oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Not classified	Not classified	Not applicable	Not applicable	Classification not possible	Classification not possible	Classification not possible
Talc	Not classified	Classification not possible	Not applicable	Not applicable	Classification not possible	Classification not possible	Classification not possible
2-Oxo-4-methyl-1, 3-dioxolan	Not classified	Not classified	Not applicable	Classification not possible	Classification not possible	Not classified	Category 2A
Bentonite	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Quartz	Classification not possible	Classification not possible	Not applicable	Not applicable	Classification not possible	Classification not possible	Classification not possible

Chemical name	Respiratory skin sensitizer	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction	Specific target organs systemic toxicity following single exposure	Specific target organs systemic toxicity following repeated exposure	Aspiration hazard
Synthetic oil	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Talc	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category 1 (respiratory organs)	Category 1 (respiratory organs)	Classification not possible
2-Oxo-4-methyl-1, 3-dioxolan	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Bentonite	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Quartz	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Category 2	Category 1A	Classification not possible	Classification not possible	Category 1 (respiratory organs, immune system, kidneys)	Classification not possible

1 2 ECOLOGICAL INFORMATION

Chemical name	Hazardous to the aquatic environment (Acute)	Hazardous to the aquatic environment (Chronic)	Hazard to the ozone layer
Synthetic oil	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Classification not possible	Classification not possible	Classification not possible
Talc	Classification not possible	Classification not possible	Classification not possible
2-Oxo-4-methyl-1, 3-dioxolan	Not classified	Not classified	Classification not possible
Bentonite	Classification not possible	Classification not possible	Classification not possible
Quartz	Classification not possible	Classification not possible	Classification not possible

1 3 DISPOSAL CONSIDERATIONS

Dispose of contents /container in accordance with local/regional/national/international regulations.

1 4 TRANSPORT INFORMATION

UN Class : Not determined.

UN No. : Not determined.

Packing Group : Not determined.

1 5 REGULATORY INFORMATION

Follow all regulations in your country.

1 6 OTHER INFORMATION

References : JISZ 7253
: GHS data-base (NITE)

Disclaimer

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