Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 1 of 7

# SAFETY DATA SHEET

# 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name : FRICTION RING GREASE

Identification of Substance/Preparation

: GREASE

Application : Industrial Lubricating Grease

SDS No. : RD10151\_Eng

Company Identification

Manufacture & Distributor: SHIMANO NORTH AMERICA FISHING, INC.

Address: 9560 Palmetto Commerce Parkway Ladson, South Carolina 29456 U.S.A.

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

Manufacture & Distributor : SHIMANO EUROPE B.V.

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

Emergency Phone number: +31-402-612222 (Business Hours Only)

Manufacture & Distributor: SHIMANO INC.

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

# 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation(EC) No 1271/2008 as amended.

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Not classified for health hazards. However, occupatinal exposure to the mixture or substance(s)

may cause adverse health effects.

#### 2.2.Label elements

Label according to Regulation(EC) No.1272/2008 as amended.

Hazard pictograms None. Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

**Precautionary statements** 

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Supplemental label information None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

List of abbreviations and symbols that may be used above.

#:This substance has been assigned Union workplace exposure limit(s).

M:M-factor

PBT:persistent, bioaccumulative and toxic substance.

vPvB:very persistent and very bio accumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

FRICTION RING GREASE SHIMANO INC.

Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 2 of 7

# 4. FIRST-AID MEASURES

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Not applicable.

Skin contact Wash skin with soap and water. Get medical attention if irritation develops and persists. Eye contact Rinse immediately with plenty of water for at least 15 minutes. Get medical attention

if irritation develops are persists.

Ingestion Rinse mouth. Get medical attention immediately.

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

Direct contact with eyes may cause temporary irritation.

4.3. Indication of any immediate medical attention and special

treatment needed

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Water fog. Form. Dry chemical powder. Carbon dioxide(Co2).

Unsuitable extinguishing media None known.

5.2. Special hazards arising from

the substance or mixture

By heating and fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment for

firefighters

gloves, rubber boots, and self-contained breathing apparatus.

Special fire fighting procedures Move containers

Move containers from fire area if you can do so without risk.

# 6. ACCIDENTAL RELEASE MEASURES

 $6.1.\,Personal\,precautions,\,protective\,\,equipment\,and\,\,emergency\,procedures$ 

For non-emergency personal Wear appropriate personal protective equipment.

6.2. Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Eliminate sources of ignition.Dam the spilled material, where this is possible. Wipe up with

Firefighters must use standard protective equipment including flame retardant coat, helmet,

absorbent material (e.g. cloth, fleece).

Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

#### 7. HANDLING AND STORAGE

7.1. Precautions for safe handling Provide adequate ventilation. Use care in handling/storage.

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep in original container.

7.3. Specific end use(s) Not available.

Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 3 of 7

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

Not available.

procedures

Derived no effect levels(DNELs) Not available. Predicted no effect concentrations Not available.

(PNECs)

8.2. Exposure controls

Appropriate engineering controls Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection Tightly sealed safety glasses according to EN 166.

Skin protection

-Hand protection Wear protective gloves.

-Other No special protective equipment required.

Respiratory protection No personal respiratory protective equipment normally required. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Wash hands before breaks and immediately after handling the product. Handle in accordance

with good industrial hygiene and safety practices.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES Typical Values

# 9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.
Form Grease
Colour White.
Odour Odourless
Odour threshold Not available.

pH Not measurable(Refer to water solubility)

Melting point/freezing point No data
Initial boiling point and Not applicable

boiling range

Flash point  $>100^{\circ}\text{C}(>212^{\circ}\text{ F})$  Closed cup Evaporation rate Negligible(Butyl Acetate=1)

Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit-lower(%) No data Flammability limit-upper(%) No data

Vapour pressureNegligible  $(25^{\circ}C)$ Vapour densityNot applicableRelative density $1,03(25^{\circ}C)$ 

Solubility(ies)

Solubility(water) Not soluble
Partition coefficient Not applicable

(n-octanol/water)

Auto-ignition temperature No data
Decomposition temperature Not available.
Viscosity Not applicable
Explosive properties Not available.
Oxidising properties Not available.

9.2. Other information

Molecular weight Not applicable

FRICTION RING GREASE SHIMANO INC.

Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 4 of 7

# 10. STABILITY AND REACTIVITY

10.1. Reactivity No hazardous reaction known under normal conditions of use, storage and transport.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

products

10.4. Conditions to avoid None known.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition Thermal breakdown of this product during fire or very high heat condition may evolve the

following hazardous decomposition product:

Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.

Formaldehyde.

#### 11. TOXICOLOGICAL INFORMATION

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation No adverse effects due to in halation are expected.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms Not available.

11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitisation

Skin sensitisation

Skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Not available.

Not available.

Not available.

Not available.

Reproductive toxicity

-single exposure Not available.

Reproductive toxicity

-repeated exposure Not available.
Aspiration hazard Not available.

Mixture versus substance No information available.

information

Other information Not available.

# 12. ECOLOGICAL INFORMATION

12.1. Toxicity No toxicity data noted for the ingredient(s).

12.2. Persistence and degradability
 12.3. Bio accumulative potential
 Partition coefficient
 Not available.
 Not available.

n-octanol/water(log Kow)

Bio concentration factor(BCF)

12.4. Mobility in soil

12.5. Results of PBT and vPvB

Not available.

No data available.

Not available.

assessment

12.6. Other adverse effects Not available.

FRICTION RING GREASE SHIMANO INC.

Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 5 of 7

# 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Incinerate. Incinerator should be appropriately equipped for silica and other fine powder

which the product will generate in incineration, Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the

Law on Disposal and Cleaning. Dispose of contents/container in accordance with

local/regional/national/international regulations.

#### 14. TRANSPORT INFORMATION

ADR

14.1.-14.6.:Not regulated as dangerous goods.

RID

14.1.-14.6.:Not regulated as dangerous goods.

AND

14.1.-14.6.:Not regulated as dangerous goods.

**IATA** 

14.1.-14.6.:Not regulated as dangerous goods.

**IMDG** 

14.1.-14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according This product is not intended to be transported in bulk.

to Annex of Marpol and the

IBC Code

Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 6 of 7

# 15. REGULATORY INFORMATION

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

EU regulations

Regulation(EC) No.1005/2009 on substances that deplete the ozone layer, Annex I and  $\, {
m II}$ , as amended Not listed.

 $Regulation (EC)\ No.850/2004\ On\ persistent\ organic\ pollutants,\ Annex\ I\ as\ amended$ 

Not listed.

Regulation(EC) No.649/2012 concerning the export and import of dangerous chemicals, Annex I ,Part 1 as amended Not listed.

Regulation(EC) No.649/2012 concerning the export and import of dangerous chemicals, Annex I ,Part 2 as amended Not listed.

Regulation(EC) No.649/2012 concerning the export and import of dangerous chemicals, Annex I ,Part 3 as amended Not listed.

Regulation(EC) No.649/2012 concerning the export and import of dangerous chemicals, Annex V,Part 3 as amended Not listed.

Regulation(EC) No.166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation(EC) No.1907/2006,REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation(EC) No.1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation(EC) No.1907/2006,REACH Annex XV II Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC:on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008

(CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of

Regulation(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

FRICTION RING GREASE SHIMANO INC.

Issued: 27 January, 2012 Revised 3nd: 28 October, 2022

Page 7 of 7

#### 16. OTHER INFORMATION

List of abbreviations

Not available.

Information on evaluation method leading to the classification of

Not available.

mixture

References

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

None.

Revision information **Training information** Disclaimer

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Reference

: Shin-Etsu Chemical Co., Ltd., 26 February 2018, "HIVAC-G", Safety Data Sheet, 1026S0/06, Shin-Etsu Chemical CO., Ltd.

#### Disclaimer

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