
SAFETY DATA SHEET

SECTION 1 : Product and company identification

Product identifier

Name: PREMIUM GREASE

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

General use: Lubricants, greases, release products (fat)

Manufacturer/Importer/Supplier/Distributor information

SHIMANO NORTH AMERICA BICYCLE, INC.

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

Telephone: +1-949-951-5003

Emergency phone number

Emergency number : +1-949-951-5003

SECTION 2 : Hazards identification

Emergency overview

Appearance: Physical state at 68°F and 101.3 kPa: liquid

Form: paste

Color: green

Odor: Characteristic

Classification: Eye Irritation - Category 2A.

Hazard symbols:



Signal word: Warning

Hazard statements: Causes serious eye irritation.

Precautionary statements: If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Wash hands and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Additional information: Remark on classification: Due to test results of raw materials used, the product is classified with Eye Irrit. 2; H319.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

SAFETY DATA SHEET

Hazards not otherwise classified

Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information

SECTION 3: Composition / Information on ingredients

Chemical characterization: A mixture of base oils and additives.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	1 - 5 %	Eye Damage - Category 1. Aquatic toxicity - chronic - Category 2.

SECTION 4: First aid measures

General information: If medical advice is needed, have product container or label at hand.

Take off contaminated clothing and wash it before reuse.

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

If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.

When in doubt or if symptoms are observed, get medical advice.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Danger of aspiration!
Call a doctor if you feel unwell.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation.

Respiratory complaints, headache, dizziness, discomfort.

Symptoms can occur only after several hours.

Information to physician

Treat symptomatically.

SECTION 5 : Fire fighting measures

Flash point/flash point range: > 392 °F

Auto-ignition temperature: Not determined

SAFETY DATA SHEET

Suitable extinguishing media: Dry chemical powder, foam, sand, carbon dioxide.
Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons:
Water.

Specific hazards arising from the chemical

May form dangerous gases and vapors in case of fire.
Furthermore, there may develop: Metal oxide smoke, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Cool exposed containers with water spray, but avoid contact of the substance with water.
Move undamaged containers from immediate hazard area if it can be done safely.
Do not inhale explosion and combustion gases. Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6 : Accidental release measures

Personal precautions: Avoid breathing mist/vapors/spray. Avoid contact with the substance.
If possible, eliminate leakage. Remove all sources of ignition. Provide adequate ventilation. Keep unprotected people away.
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Environmental precautions: Do not allow to enter into ground-water, surface water or drains.
If necessary, notify appropriate authorities.

Methods for clean-up: Clear spills immediately.
Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material
(e.g. sand, diatomaceous earth, universal binding agents, sawdust).
Prevent spread over a wide area (e.g. by containment or oil barriers). Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Cover drains.
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

SAFETY DATA SHEET

SECTION 7 : Handling and storage

Handling

- Advices on safe handling:
- Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
 - Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
 - Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

- Keep away from heat. Keep away from sources of ignition - No smoking.
- When handling larger quantities, take precautionary measures against electrostatic charging.

Storage

Requirements for storerooms and containers:

- Keep container tightly closed in a cool, well-ventilated place.
- Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Shafts and sewers must be protected from entry of the product.
- Protect from frost, heat and sunlight.
- Keep container dry. Keep only in the original container.
- Store containers in upright position.
- Recommended storage temperature: 5 – 40°C

Hints on joint storage:

- Do not store together with: Oxidizing agents, acids.
- Keep away from food, drink and animal feedingstuffs.

SECTION 8 : Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit Values:

Type	Limit value
USA: ACGIH: TWA	5 mg/m ³ (Oil mist mineral, inhalable fraction)
USA: IDLH: TWA	2,500 mg/m ³
USA: NIOSH: STEL	10 mg/m ³ (Oil mist mineral)
USA: NIOSH: TWA	5 mg/m ³ (Oil mist mineral)
USA: OSHA: TWA	5 mg/m ³ (Oil mist mineral)

Engineering controls

- Provide for good ventilation or exhaust system or work with completely self-contained equipment.
- See also information in chapter 7, section storage.

SAFETY DATA SHEET

Personal protection equipment (PPE)

Eye/face protection:	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Skin protection:	Wear suitable protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Nitrile rubber (NBR) Breakthrough time: 240 min Layer thickness: 0.12 mm Unsuitable glove material: Butyl caoutchouc (butyl rubber), NR (natural rubber (Caoutchouc), natural latex), CR (polychloroprene, chloroprene rubber) Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use combination filter type A/P3 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
General hygiene considerations:	Avoid breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

SECTION 9 : Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: paste Color: green
Odor:	Characteristic
Odor threshold:	No data available
pH:	Not determined
Melting point/freezing point:	> 302 °F
Initial boiling point and boiling range:	> 482 °F
Flash point/flash point range:	> 392 °F

SAFETY DATA SHEET

Evaporation rate:	No data available
Flammability:	This material is combustible, but will not ignite readily.
Explosion limits:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Vapor pressure:	Not determined
Vapor density:	No data available
Density:	at 77 °F: approx. 0.93 g/mL
Solubility:	Not determined
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not determined
Thermal decomposition:	Not relevant
Viscosity, kinematic:	Not determined
Particle characteristics:	Not applicable

SECTION 1 0 : Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight. Protect from frost.
Incompatible materials:	Oxidizing agents, acids.
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	Not relevant

SECTION 1 1 : Toxicological information

Toxicological tests

Toxicological effects:	The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Based on available data, the classification criteria are not met. Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Based on available data, the classification criteria are not met. May be harmful if inhaled. Skin corrosion/irritation: Based on available data, the classification criteria are not met.
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SAFETY DATA SHEET

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Remark on classification: Due to test results of raw materials used, the product is classified with Eye Irrit. 2; H319.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information:

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):LD50, Rat, oral: 3,100 mg/kg (OECD 401)

Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12 : Ecological information

Ecotoxicity

Aquatic toxicity:

Data refer to product

Fish toxicity:

LC50 Danio rerio (zebrafish): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202)

Algae toxicity:

EC50: > 100 mg/L/72h (OECD 201)

NOEC: > 100 mg/L/72h (OECD 201)

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

Mobility in soil

No data available

Persistence and degradability

Further details:

No data available

SAFETY DATA SHEET

Additional ecological information

Volatile organic compounds(VOC):

1.66 % by weight

General information:

Do not allow to enter into ground-water, surface water or drains.

SECTION 1 3 : Disposal considerations

Product

Recommendation:

The waste is to be kept separate from other types of waste until its disposal.

Dispose of waste according to applicable legislation.

Do not dispose of with household waste.

Package

Recommendation:

Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

Non-contaminated packages may be recycled.

SECTION 1 4 : Transport information

UN number

ADR/RID, IMDG, IATA DGR: Not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: Not applicable

Packing group

ADR/RID, IMDG, IATA-DGR: Not applicable

Environmental hazards

Marine pollutant: No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: No

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

SAFETY DATA SHEET

SECTION 15 : Regulatory information**National regulations - U.S. Federal Regulations**

Product: All ingredients are listed or exempt from listing.

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

TSCA Inventory: listed

National regulations - U.S. State Regulations

No data available

SECTION 16 : Other information

Issue date : 11/18/2025

Revision date : -

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS created by SHIMANO INC.