

Safety Data Sheet
according to WHS Regulations

Printing date 03.04.2019

Version number 1.3

Revision: 03.04.2019


1 Identification

- **Product identifier**
- **Trade name:** BIKE GREASE 2000
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Grease
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BUCHER AG LANGENTHAL
MOTOREX-Schmiertechnik
Bern-Zürich-Strasse 31
CH-4901 Langenthal
Telefon +41 (0)62 919 75 75

A1 Accessory Imports
60-62 Burchill St.
Loganholme
4129 QLD
Australia
Phone : 07 3451 1300
- **Further information obtainable from:** msds@motorex.com
- **Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre
Australia 13 11 26

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

GHS07
- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P280 Wear 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.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

| | | |
|-------------------|---|----------|
| CAS: 68457-79-4 | Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) | ≥1-<2.5% |
| EINECS: 270-608-0 | ester, zinc salts | |
| | Eye Dam. 1, H318; Skin Irrit. 2, H315 | |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Remove contaminated clothing immediately.
Remove residues with soap and water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Do not induce vomiting. Do not take in resorption stimulating agents.
Consult a physician who will decide on need and method of emptying the stomach.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** DO NOT USE WATER JET
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store containers closed and protect against rain, dust, heat and other atmospheric influences.
Keep container tightly sealed.
- **Storage class:** 11
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

68457-79-4 Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) ester, zinc salts

| | | |
|------------|--|---------------------------|
| Oral | DNEL/general population/Systemic effects/Long-term | 0.24 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Systemic effects / Long-term | 11.87 mg/kg/24h (worker) |
| | DNEL/general population/Systemic effects/Long-term | 5.93 mg/kg/24h (consumer) |
| Inhalative | DNEL / Workers / Systemic effects / Long-term | 8.13 mg/m3 (worker) |
| | DNEL/general population/Systemic effects/Long-term | 2.06 mg/m3 (consumer) |

· PNECs

68457-79-4 Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) ester, zinc salts

| | | |
|------|--|--|
| Oral | PNEC / Predators / Secondary poisoning | 10.67 mg/kg food (secondary poisoning (predators)) |
| | PNEC / Aquatic organisms / Freshwater | 0.004 mg/l (aquatic organisms) |
| | PNEC / Aquatic organisms / Marine water | 0.0046 mg/l (aquatic organisms) |
| | PNEC/Aquatic organisms/Sewage treatment plant/STP | 100 mg/l (aquatic organisms) |
| | PNEC / Aquatic organisms / Sediment (freshwater) | 0.0244 mg/kg (aquatic organisms) |
| | PNEC / Aquatic organisms / Sediment (marine water) | 0.00244 mg/kg (aquatic organisms) |
| | PNEC / Terrestrial organism / Soil | 0.00249 mg/kg (terrestrial organisms) |

- **Additional information:** The lists valid during the making were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· Respiratory protection:

- Not necessary if room is well-ventilated.
- Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

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- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Protective gloves to EN374, resistant to oil in use. Standard EN 374 Level 3 control G1

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 1).

- **Eye protection:** Not required.

- **Body protection:** Protective work clothing

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Pasty

Colour: Green

- **Odour:** weak

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

Drip point: 150 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not determined.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

- **Vapour pressure:** Not applicable.

- **Density at 20 °C:** 0.93 g/cm³ (ASTM D 4052)

- **Relative density** Not determined.

- **Vapour density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

water: Insoluble.

- **Partition coefficient: n-octanol/water:** Not determined.

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| | |
|----------------------------|--|
| · Viscosity: | NLGI 2 |
| · Dynamic: | Not applicable. |
| · Kinematic: | Not applicable. |
| · VOC (EC) | 0.00 % |
| · Other information | No further relevant information available. |

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

68457-79-4 Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) ester, zinc salts

| | | |
|--------|-------|-----------------------|
| Oral | LD50 | 3,600 mg/kg (rat) |
| | NOEL | 40 mg/kg/24h (rat) |
| | NOAEL | 160 mg/kg/24h (rat) |
| Dermal | LD50 | 20,000 ml/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

68457-79-4 Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) ester, zinc salts

| | |
|-------|--|
| LC50 | 46 mg/l/96h (fish) |
| EC50 | 10,000 mg/l/3h (microorganisms) |
| LL50 | 4.5 mg/l/96h (fish) |
| EL50 | 23 mg/l/48h (aquatic invertebrates) |
| EL50 | 21-24 mg/l/72h (algae / cyanobacteria) |
| NOEC | 0.4-0.8 mg/l/21d (aquatic invertebrates) |
| NOELR | 1.8 mg/l/96h (fish) |
| NOELR | 10 mg/l/48h (aquatic invertebrates) |
| LOEC | 0.8 mg/l/72h (aquatic invertebrates) |

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- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**

- **Bioaccumulative potential**

| |
|---|
| 68457-79-4 Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) ester, zinc salts |
|---|

| |
|--|
| Partition coefficient 0.69 [---] (log Kow) (Bioaccumulation) |
|--|

- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| <ul style="list-style-type: none"> · UN-Number · ADG, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · UN proper shipping name · ADG, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADG, ADN, IMDG, IATA · Class | Void |
| <ul style="list-style-type: none"> · Packing group · ADG, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| <ul style="list-style-type: none"> · UN "Model Regulation": | Void |

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **VOCV (CH) 0,00 %**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

· **Relevant phrases**

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

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

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

· *** Data compared to the previous version altered.**