Safety Data Sheet
acc. to OSHA HCS

Printing date 04/18/2023 Reviewed on 11/08/2022

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1 Identification

· **Product identifier**

· **Trade name:** **BIKE GREASE**

· **Application of the substance / the mixture**
Grease
Only for proper handling.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**

MOTOREX AG
Bern–Zürich–Strasse 31, Postfach
CH–4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

· **Information department:** msds@motorex.com
· **Emergency telephone number:**
USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

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2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 68457-79-4 EINECS: 270-608-0	Phosphorus dithionic acid, mixed O, O-bis (isobutyl and pentyl) ester, zinc salts	1%
	Eye Damage 1, H318; Aquatic Chronic 2, H411; Skin Irritation 2, H315; Aquatic Acute 2, H401	

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/18/2023 Reviewed on 11/08/2022

Trade name: BIKE GREASE

(Contd. of page 1)

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4 First-aid measures

· **Description of first aid measures**
· **General information:** No special measures required.
· **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.
· **After swallowing:**
Do not induce vomitting. Do not take in resorption stimulating agents.
Consult a physician who will decide on need and method of emptying the stomach.
· **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 fighting measures that suit the environment.
· **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.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**
None of the ingredients is listed.

· **PAC-2:**
None of the ingredients is listed.

· **PAC-3:**
None of the ingredients is listed.

· **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.

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7 Handling and storage

· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

· **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.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/18/2023 Reviewed on 11/08/2022

Trade name: BIKE GREASE

(Contd. of page 2)

· **Further information about storage conditions:**
The recommended storage temperature is (deg.C): ≤ 50°C
Store containers closed and protect against rain, dust, heat and other atmospheric influences.
· **Storage class:** 11
· **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **Control parameters**
· **Components 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.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Additional information about design of technical systems:** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
· **Breathing equipment:**
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.
· **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**
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **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.
· **Eye protection:** Not required.
· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**

· **Color:**	Green
· **Odor:**	weak
· **Odor threshold:**	Not determined.
· **Melting point/Melting range:**	>150 °C (>302 °F)
· **Boiling point/Boiling range:**	>250 °C (>482 °F) (DIN EN ISO 3405)
· **Flammability (solid, gaseous):**	Not determined.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	>200 °C (>392 °F)
· **Decomposition temperature:**	Not determined.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/18/2023 Reviewed on 11/08/2022

Trade name: BIKE GREASE

(Contd. of page 3)

· **pH-value:**	Not applicable.
· **Viscosity:**	NLGI 2
· **Kinematic:**	Not applicable.
· **Consistency**	
· **Dynamic:**	Not applicable.
· **Solubility in / Miscibility with**	
· **Water:**	Insoluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Vapor pressure:**	Not applicable.
· **Vapor pressure:**	
· **Density at 20 °C (68 °F):**	0.93 g/cm³ (7.761 lbs/gal) (ASTM D 4052)
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Other information**	
· **Appearance:**	
· **Form:**	Pasty
· **Important information on protection of health and environment, and on safety.**	
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Solvent separation test**	
· **VOC content:**	0.00 %
· **Change in condition**	
· **Drip point:**	150 °C (302 °F)
· **Evaporation rate**	Not applicable.

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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are 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)

· **on the skin:** Based on available data, the classification criteria are not met.
· **on the eye:** Based on available data, the classification criteria are not met.
· **Sensitization:** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** 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.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Trade name: BIKE GREASE

(Contd. of page 4)

· **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.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

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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/kg/28d (aquatic invertebrates)

· **Persistence and degradability** No further relevant information available.

· **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.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects**
· **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.

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/18/2023 Reviewed on 11/08/2022

Trade name: BIKE GREASE

(Contd. of page 5)

Contact waste processors for recycling information.
Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packagings:**
· **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

· **UN-Number** · **DOT, ADR/RID/ADN, ADN, IMDG, IATA**	*Void*
· **UN proper shipping name** · **DOT, ADR/RID/ADN, ADN, IMDG, IATA**	*Void*
· **Transport hazard class(es)** · **DOT, ADR/RID/ADN, ADN, IMDG, IATA** · **Class**	*Void*
· **Packing group** · **DOT, ADR/RID/ADN, IMDG, IATA**	*Void*
· **Environmental hazards:** · **Marine pollutant:**	*No*
· **Special precautions for user**	*Not applicable.*
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	*Not applicable.*
· **UN "Model Regulation":**	*Void*

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**
None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/18/2023 Reviewed on 11/08/2022

Trade name: BIKE GREASE

(Contd. of page 6)

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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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.

· **Department issuing SDS:** Abteilung Produktsicherheit
· **Date of preparation / last revision** 04/18/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· *** Data compared to the previous version altered.**