



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Bike Oil W20 Aerosol
UFI: 4W10-H065-N00T-DYAP

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

General use: Lubricating agent
Lubricant for chains for all types of bikes

1.3 Details of the supplier of the safety data sheet

Company name: EUROTECH Maier Ernst GmbH
Street/POB-No.: Herrschaftswiesen 5
Postal Code, city: AT-6842 Koblach
WWW: www.eurotech.at
E-mail: office@eurotech.at
Telephone: +43 (0)5523 53852
Telefax: +43 (0)5523 53852 4
Department responsible for information:
Telephone: +43 (0)5523 53852, Email: office@eurotech.at

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

Hazard statements: H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary statements: P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling

Text for labelling: Contains chlorinated hydrocarbons.



2.3 Other hazards

Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.

Potentially explosive mixtures may form if adequate ventilation is not provided.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Multifunctional, high-performance mineral oil with NEOVAL OIL concentrate and additives

Hazardous ingredients:

| Identifiers | Designation Classification | Content |
|------------------------------------|--|-----------|
| EC No. - CAS - | Alkylarylsulfonsäure, Calciumsalz Skin Irrit. 2; H315. Eye Irrit. 2; H319. | 1 - 3 % |
| EC No. 272-028-3 CAS 68649-42-3 | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Skin Irrit. 2; H315. Eye Dam. 1; H318. Aquatic Chronic 2; H411. | < 1 % |
| EC No. 203-448-7 CAS 106-97-8 | n-Butane, pure Flam. Gas 1; H220. Press. Gas (Liq.); H280. | 20 - 25 % |
| EC No. 200-827-9 CAS 74-98-6 | Propane Flam. Gas 1; H220. Press. Gas (Comp.); H280. | 10 - 15 % |
| EC No. 200-857-2 CAS 75-28-5 | Isobutane, pure Flam. Gas 1; H220. Press. Gas (Comp.); H280. | 5 - 10 % |

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation: Provide fresh air. Seek medical attention if problems persist.

Following skin contact: Remove residues with soap and water. Change contaminated clothing. 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. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Swallowing is not regarded as a possible way of exposition.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation of the product may cause giddiness, mild dizziness or headache.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, carbon dioxide, foam, extinguishing powder

Extinguishing media which must not be used for safety reasons:

Full water jet



5.2 Special hazards arising from the substance or mixture

Extremely flammable. Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited.

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: Sulphur oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information:

Container under pressure. Heating will lead to pressure increase: Danger of bursting and explosion. Cool endangered containers with water spray and, if possible, remove from danger zone.

Use water spray jet to knock down vapours.

Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so.

Provide adequate ventilation.

Avoid contact with skin and eyes.

Do not breathe vapour/aerosol.

Keep unprotected people away.

Wear appropriate protective equipment.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Provide adequate ventilation.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Use only in well-ventilated areas. Do not spray into eyes or onto the skin. Do not breathe vapour/aerosol. Wear appropriate protective equipment.

Precautions against fire and explosion:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material.

Use only non-sparking tools. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep only in the original container.

Protect from heat and direct sunlight.



Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|----------|-----------------|---------------------|-------------|
| 106-97-8 | n-Butane, pure | Ireland: 8 hours | 1000 ppm |
| 75-28-5 | Isobutane, pure | Ireland: 15 minutes | 1000 ppm |

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Good general ventilation should be sufficient for most conditions.
Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use filter type A (= against vapours of organic substances) according to EN 14387.
The following applies to Propane in general:
If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Hand protection: Recommendation: Protective gloves according to EN 374.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Keep away from heat sources, sparks and open flames.
Change contaminated clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Use a water-soluble skin protection product.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa: Form: Aerosol

Colour: olive green

Odour: characteristic

Odour threshold: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flammability: Extremely flammable.

Upper/lower flammability or explosive limits: LEL (Lower Explosion Limit): approx. 1.50 Vol-%
UEL (Upper Explosive Limit): approx. 11.00 Vol-%

Flash point/flash point range: No data available



| | |
|---|--|
| Auto-ignition temperature: | approx. 400 °C (DIN 51794) |
| Decomposition temperature: | No data available |
| pH: | No data available |
| Viscosity, kinematic: | at 40 °C: 41 mm ² /s (ISO 3104) |
| Water solubility: | immiscible |
| Partition coefficient: n-octanol/water: | No data available |
| Vapour pressure: | at 20 °C: 4000 hPa |
| Density: | at 20 °C: 0.898 g/mL (ISO 3675) |
| Vapour density: | No data available |
| Particle characteristics: | Not applicable |

9.2 Other information

| | |
|----------------------------|---|
| Explosive properties: | Product is not explosive. Potentially explosive vapour/air mixtures may form. |
| Oxidizing characteristics: | No data available |
| Auto-ignition temperature: | No data available |
| Evaporation rate: | No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Container under pressure.
Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 50 °C.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

In case of fire may be liberated:
Sulphur oxides, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: LD50 Rat, oral (calculated): > 2000 mg/kg



Toxicological effects:

- Acute toxicity (oral): Based on available data, the classification criteria are not met.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Serious eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: Inhalation of the product may cause giddiness, mild dizziness or headache.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 16 05 04* = Gases in pressure containers (including halons) containing hazardous substances

* = Evidence for disposal must be provided.



Recommendation: Special waste. Dispose of waste according to applicable legislation.
Do not dispose of with household waste.
Do not open with force or incinerate, even when empty.

Package

Waste key number: 15 01 10* = packaging containing residues of or contaminated by dangerous substances
emptied pressure containers
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Empty carefully and completely, if possible.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR/RID, IMDG, IATA-DGR: UN 1950

14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS
IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F
IMDG: Class 2, Subrisk -, see SP63
IATA-DGR: Class 2.1

**14.4 Packing group**

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

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous
according to the criteria of the UN model regulations.

Marine pollutant: no

14.6 Special precautions for user**Land transport (ADR/RID)**

Warning board: RID: Kemmler-number 23, UN number UN 1950
Hazard label: 2.1
Special Provisions: 190 327 344 625
Limited quantities: 1 L
EQ: E0
Package - Instructions: P207 LP200
Package - Special Provisions: PP87 RR6 L2
Special provisions for packing together: MP9
Tunnel restriction code: D

**Sea transport (IMDG)**

| | |
|---------------------------------|----------------------------|
| EmS: | F-D, S-U |
| Special Provisions: | 63 190 277 327 344 381 959 |
| Limited quantities: | See SP277 |
| Excepted quantities: | E0 |
| Package - Instructions: | P207, LP200 |
| Package - Provisions: | PP87, L2 |
| IBC - Instructions: | - |
| IBC - Provisions: | - |
| Tank instructions - IMO: | - |
| Tank instructions - UN: | - |
| Tank instructions - Provisions: | - |
| Stowage and handling: | SW1 SW22 |
| Segregation: | SG69 |
| Properties and observations: | - |
| Segregation group: | none |

Air transport (IATA)

| | |
|---|--|
| Hazard label: | Flamm. gas |
| Excepted Quantity Code: | E0 |
| Passenger and Cargo Aircraft: Ltd.Qty.: | Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G |
| Passenger and Cargo Aircraft: | Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg |
| Cargo Aircraft only: | Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg |
| Special Provisions: | A145 A167 A802 |
| Emergency Response Guide-Code (ERG): | 10L |

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - EC member states**

Volatile organic compounds (VOC):

approx. 38 % by weight = 334 g/L

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
[Seveso-III-Directive]

Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.

H222 = Extremely flammable aerosol.

H229 = Pressurised container: May burst if heated.

H280 = Contains gas under pressure; may explode if heated.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H411 = Toxic to aquatic life with long lasting effects.

Reason of change: General revision

Date of first version: 15/8/2001



Department issuing data sheet: **see section 1: Department responsible for information**

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aerosol: Aerosol
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
Eye Irrit.: Eye irritation
Flam. Gas: Flammable gases
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Press. Gas: Gases under pressure
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.