

# Material Safety Data Sheet according to 2001/58/EG

## 1. Product and Name of Manufacturer

- 1.1. Trade Name of Product: **BALLISTOL-Oil + Aerosol**
- 1.2. Application of the Product: Maintenance, cleaning, rust prevention and Lubricating of metal parts.
- 1.3. Manufacturer: F.W. Klever GmbH, Hauptstr. 20, D - 84168 Aham
- 1.4. Telephone in case of emergency: ++49 (0) 8744 – 96 99-99 (8:30-16:00), Fax -96 99 96

## 2. Informations about the composition:

- 2.1. Description: Rustpreventing and lubricating oil.
- 2.2. Hazardous contents: Spray: Propellant propane-butane (CAS-Nr. 74-98-6; 106-97-8)  
Liquid Hydrocarbons (CAS-Nr. 64742-49-0)
- 2.3. Additional Informations: -

## 3. Potential Hazards

Oil: R 10, combustible in contact with open fire.  
Aerosol: R 12, Highly inflammable.

## 4. First Aid

After Inhalation: fresh air  
After Eye Contact: rinse with water.  
After Ingestion: not hazardous when ingested.  
Informations for the Physician: symptomatic therapy if necessary

## 5. Actions for Fire Fighting

Suitable Fire Distinguishers: sprinkled water, foam, carbon dioxide, sand.  
Unsuited Equipment: strong water jet.  
Extraordinary Danger by Combustion Products: none.  
Particular Protection Equipment for Fire Fighting: not necessary.

## 6. Precautions when released involuntarily:

Personel Precautions: none.  
Environmental Actions: do not pour it into the drainage.  
Instructions for Cleaning / Absorption: absorb with sand, sawdust or similar.

## 7. Handling and Storage:

- 7.1. Instructions for secure Working: Do not eat, drink or smoke during work. Do not inhale aerosols.  
Spray: use it only in ventilated rooms.
- 7.2. Storage: Only in the original container, store at room temperature and normal humidity.  
Spray: according to the national instructions (Germany: TRG 300).
- 7.3. Specifications for stockholding and containers: -  
Storage with other products: do not store together with strong oxidizing agents.

## 8. Limitation of Exposition and personel protection:

- 8.1. Limits of exposition: 310 mg/m<sup>3</sup> on the basis of the C-4/C-5-alcohols  
1.800 mg/m<sup>3</sup> Propane; 2.400 mg/m<sup>3</sup> Butane
- 8.2. Limitation and controlling of exposition: Ventilate exposed areas. The exposition limit will not be reached when the complete content of a 200 ml can is sprayed in a room of 20 m<sup>2</sup>.
  - 8.2.1. Limitation and controlling of exposition on the bench: see 8.2.
    - 8.2.1.1. Gas mask: not necessary when used as directed.
    - 8.2.1.2. Gloves: not necessary when used as directed.
    - 8.2.1.3. Eye Protection: not necessary when used as directed
    - 8.2.1.4. Protective Clothes: not necessary when used as directed
  - 8.2.2. Limitation and controlling of immission: not necessary when used as directed

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## 9. Physical and Chemical Properties

9.1. General informations: liquid / aerosol

Colour: bright yellowish

Status: liquid / pressurised aerosol

Odour: characteristic for the product.

9.2. Security relevant datas

pH-Wert: n.a.

9.3. Further informations:

Pourpoint DIN ISO 3016:	Oil:	-10°C	Aerosol: n.a.
Flashpoint DIN ISO 51758:	Öil:	52°C	Aerosol: n.a.
Vapour pressure 20°C	Oil	5 hP	Aerosol: Inner pressure 7,5 Bar
Density 20°C		0,865 g/cm <sup>3</sup>	Aerosol: 0,775 g/cm <sup>3</sup>
Solubility in water / 20°C		Emulsion	
Distribution coefficient n-Octanol/Wasser:		n.a.	
Kinematic Viscosity / 20°C	Oil:	ca. 58 mm <sup>2</sup> /s	Aerosol : n.a.

## 10. Stability and Reactivity

10.1. Conditions to avoid : Oil: heating > 100°C, Aerosol: Heating > 50°C

10.2. Avoid contact with: Strong oxidants which may cause self ignition at higher temperatures

10.3. Hazardous decomposition products: No

## 11. Toxicological Datas

Toxicological Inverstigations:

Acute Toxicity: LD50 (rat, oral) > 10 000 mg/kg (complete filling of the stomage)

Specific symptoms in animal experiment: no

Irritant or discharge action: slight irritation when in contact with the eye.

Sensibilization: no sensibilisation observed.

Subacute or chronic toxicity: permanent contact with skin is not hazardous nor irritating.

Carcinogenic, mutagenic or teratogenic hazards: the components showed no cancerogenic potential in animal experiments.

Experiencies: -

General Remarks: The toxicological datas are based on the observation and experiments in the course of more than 90 years. Among others many users apply it even on the skin, partially internal, too (Non-Spray). Observations on intoxications, chronical-toxical action have not been reported.

## 12. Ecological Datas

12.1. Ecotoxicity: no datas available.

12.2. Mobility: Emulsification in water, immobilized in soil.

12.3. Persistency, elimination and degradability: The product is nearly completely biodegradable (Bartha-Pramer-Test).

12.4. Bioaccumulation: none (see 12.3)

12.5. Additional ecological datas: no

## 13. Treatment of Waste

Waste classification: 130202 Engine, turbine and gearing oils (see national instructions)

Uncleaned containers: empty container completely.

Recommendations: the containers are recycable

Recommended cleaning material: Warm water with tenside. Waste water biodegradable.

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### 14. Instructions for Transport

#### Road/Railway:

Oil: UN 1268 Petroleum distillates, n.o.s. (alcohol), 3, F1,III, ADR  
including 5 litre: „limited quantity“ (max. up to 45 kg/box)

more than 5 litre: Dangerous Good

Spray: UN 1950 Aerosols, flammable,2,5F,ADR

50 ml is no Dangerous Good according to ADR

100 and 200 ml are „limited quantity“, (max. up to 30kg/box)

#### Seafreight:

Oil: Petroleum distillates, n.o.s. (alcohol), class 3, UN-Nr. 1268, Packing Group III,  
EmS F-E, S-E

including 5 l: „LTD QTY“ (max. up to 30 kg/box)

more than 5 l: Dangerous Good

Spray: Aerosols, flammable, class 2, UN-Nr. 1950, Packing Group -, EmS F-D, S-U

50 ml is no Dangerous Good according to IMDG Code

100 and 200 ml are „limited quantity“, (max. up to 30kg/box)

#### Airway:

Oil: Dangerous Good UN 1268 Petroleum distillates, n.o.s., class 3.3, Packing Group III,  
Packing Instructions 309 (Passenger) / 310 (Cargo)

Spray: Dangerous Good UN 1950 Aerosols, flammable, class 2.1, Packing Group -, Packing  
Instructions 203 (Passenger and Cargo)

### 15. General Instructions

Typification according to EU-Rules:

-Aerosol: R12 Highly inflammable, F+

Dispatch box: “UN 1950 Aerosole”

-Oil: > 125 ml: R 10 : Inflammable

S 7, 16: Keep container well closed. Do not smoke.

National Instructions: Aerosols:

Caution! Highly inflammable. Contents under pressure. Do not expose to heat or store above 50°C. Do not spray into flames, do not puncture nor incinerate containers. Keep out of reach of children.

Restrictions of employment: -

Failure regulation act: -

Classification combustible liquids regulation: -

Technical instruction air: -

Water hazardous Classification: WGK 1

Other instructions, restrictions and prohibitions: -

### 16. Further Informations

Abbreviations: n.a. = not applicable

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