



EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Date of print: 16.05.2011
Revision date: 02.05.2011
Date of first version: 15.07.2009

BALLISTOL Universaloil

Material number 2170

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Name of product: BALLISTOL Universaloil

Use of the substance / preparation

For maintaining metal, wood, leather, rubber, synthetic material

Company / undertaking identification

Company name: F.W. KLEVER GmbH

Street/POB-No.: Hauptstrasse 20

State/city/postal code: D-84168 Aham

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Emergency telephone

Dr. Christian Zettler, Telephone: +49 (0) 8744 96 99 0

This number is serviced during office hours.

2. Hazards identification

Classification according to directive 67/548/EEC or 1999/45/EC:



extremely flammable

R 12

Extremely flammable.

3. Composition/information on ingredients

Dangerous ingredients:

CAS-No.	EINECS / ELINCS	Chemical name	Content	Classification
74-98-6	200-827-9	Propane	< 15 %	F+; R 12
106-97-8	203-448-7	n-Butane, pure	< 15 %	F+; R 12
92112-69-1	295-570-2	Hexane, branched and linear	< 2,5 %	F, Xn, N; R 11, 38, 51/53, 65, 67

4. First aid measures

Following inhalation: Provide fresh air. If the casualty has difficulty breathing, call a doctor immediately.

After 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.
Subsequently consult an ophthalmologist.



5. Fire fighting measures

Suitable extinguishing media:

Water fog, foam, extinguishing powder, carbon dioxide.

Special exposure hazards arising from the preparation itself, combustion products, resulting gases:

Extremely flammable. Vapours may form explosive mixtures with air.

Can be released in case of fire: Carbon black, carbon monoxide and carbon dioxide

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone.

Heating causes rise in pressure with risk of bursting.

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

6. Accidental release measures

Personal precautions:

Remove all sources of ignition. Provide adequate ventilation. Do not breathe vapour or spray.

Environmental precautions:

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits. If necessary notify appropriate authorities.

Methods for cleaning up:

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Thoroughly clean surrounding area.

7. Handling and storage

Handling

Information for safe handling:

Provide adequate ventilation, and local exhaust as needed.

Do not breathe vapour or spray. Do not spray in the eyes.

Do not spray into flames or ignition sources.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force or incinerate, even when empty.

Storage

Requirements for storerooms and containers:

Store only in original container. Store at room temperature.

Storage class:

2B

8. Exposure controls / Personal protection equipment

Exposure limit values

CAS-No.	Chemical name	Type	Value
106-97-8	n-Butane, pure	Great Britain: WEL-TWA	600 ppm
		Great Britain: WEL-TWA	1450 mg/m ³
		Great Britain: WEL-STEL	750 ppm
		Great Britain: WEL-STEL	1810 mg/m ³
92112-69-1	Hexane, branched and linear	Great Britain: WEL-TWA	500 ppm
		Great Britain: WEL-TWA	1800 mg/m ³

Exposure controls

Use only in well-ventilated areas.

See also information in chapter 7, section storage.



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Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter apparatus type AX. identification colour brown according to EN 371.
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.
Glove material: Nitrile rubber-Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Recommendation: Tightly sealed safety glasses according to EN 166.
- General protection and hygiene measures:
Take off immediately all contaminated clothing.
Wash hands before breaks and at the end of work.

9. Physical and chemical properties

Appearance

- Physical state: Aerosol
Colour: light yellow up to yellow
Odour: characteristic

Important health, safety and environmental information

- Boiling temperature / boiling range: (propane) -42 °C
Flash point / flash point range: (propane) -104 °C
Explosion limits: LEL (Lower Explosive Limit): 1,50 Vol-%
UEL (Upper Explosive Limit): 10,90 Vol-%
Density: at 20 °C: 0,775 g/ml
Solubility in water: at 20 °C: insoluble, emulsifiable

10. Stability and reactivity

- Conditions to avoid: Extremely flammable. Container under pressure.
Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force or incinerate, even when empty. Do not spray into flames or ignition sources.
Keep away from sources of ignition - No smoking.
- Materials to avoid: Violent reactions may occur on contact with strong oxidizing agents (combustible materials).
- Hazardous decomposition products: Can be released in case of fire: Carbon black, carbon monoxide and carbon dioxide
- Additional information: Product is stable under normal storage conditions.

11. Toxicological information

Toxicological Tests:

- Following inhalation: Inhalation causes narcotic effects/intoxication.
In case of prolonged exposure: Nausea, drowsiness, headache, excitation, fatigue, dizziness, unconsciousness.
In case of high vapour concentrations: CNS disorders, unconsciousness.
- After eye contact: mild irritant

General remarks

Not known to cause sensitization.



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12. Ecological information

Ecotoxicity

Water Hazard Class: 1 = mild water pollutant
Further details: No indication of bio-accumulation potential.

Details of elimination

Further details: Product is easily biodegradable.
Does not dissolve in water. Floats on water surface.
Will be adsorbed by the ground and stays immobile.

Additional ecological information

General information: Do not allow to enter ground water, sewage or drains.

13. Disposal considerations

Product

Waste key number 160504* = Gases in pressure containers (including halons) containing dangerous substances
* = Evidence for disposal must be provided.

Recommendation: Special waste. Waste disposal according to official state regulations.

Contaminated packaging

Waste key number 150110 = packaging containing residues of or contaminated by dangerous substances.

Recommendation: Empty carefully and completely, if possible.
Waste disposal according to official state regulations.

14. Transport information

Overland transport (ADR/RID)

Warning board: ADR: UN number 1950
RID: Kemmler-number 23, UN number 1950

Product designation: UN 1950, AEROSOLS, flammable

ADR/RID: Class 2, Code: 5F

Label: 2.1

Special provisions: 190 - 327 - 625

Limited quantities: LQ2

EQ: E0

Contaminated packaging: Instructions: P003 - LP02

Contaminated packaging: Special provisions: PP17 - PP87 - RR6 - L2

Special provisions for packing together: MP9

Tunnel restriction code: D





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Transport by sea (IMDG)

UN number:	1950
Proper shipping name:	Aerosols (maximum 1 l)
IMDG:	Class 2, Code -, •, see SP63
Packing Group:	-
EmS:	F-D, S-U
Special provisions	63, 190, 277, 327, 959
Limited quantities	See SP277
EQ	E0
Contaminated packaging: Instructions	P003 - LP02
Contaminated packaging: Provisions	PP17 - PP87 - L2
IBC: Instructions	-
IBC: Provisions	-
Tank instructions: IMO	-
Tank instructions: UN	-
Tank instructions Provisions	-
Stowage and segregation	Category A. Segregation as for class 9 but 'Away from' sources of heat and 'Separated from' class 1 except division 1.4.
Properties and observations	-

Air transport (IATA)

UN/ID number:	1950
Proper shipping name:	AEROSOLS, flammable
ICAO/IATA:	Class 2.1
Hazard	Flamm. gas
EQ	E0
Passenger Ltd.Qty.:	Y203 - Maximum quantity: 30 kg G
Passenger:	203 - Maximum quantity: 75 kg
Cargo:	203 - Maximum quantity: 150 kg
Special Provisioning	A145 - A153
ERG	10L

15. Regulatory information

Classification

Code letter and hazard symbol:	F+	extremely flammable
R phrase(s):	R 12	Extremely flammable.
S phrase(s):	S 23	Do not breathe vapour or spray.
	S 51	Use only in well-ventilated areas.

Text for labelling: Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force or incinerate, even when empty. Do not spray into flames or ignition sources. Take normal precautions in handling aerosol products. Keep away from sources of ignition - No smoking. Store out of the reach of children.

National regulations

National regulations - Germany

Storage class:	2B
Water Hazard Class:	1 = mild water pollutant
Informations on working limitations:	Observe employment restrictions concerning young persons.



Es wirkt!

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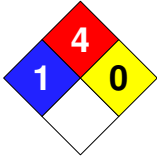
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National regulations - USA

Hazard rating systems



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	4
PHYSICAL HAZARD	0
	X

16. Other information

Further remarks

R phrase(s):

R 11 = Highly flammable.

R 12 = Extremely flammable.

R 38 = Irritating to skin.

R 51/53 = Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 = Harmful: may cause lung damage if swallowed.

R 67 = Vapours may cause drowsiness and dizziness.

Reason of change:

Changes in section 2 + 15: Changes in labelling

Changes in section 3: CAS 64742-49-0 --> CAS 92112-69-1

General revision

Group that issues data sheet

Contact person:

see chapter 1, department responsible for information.

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.