



according to Regulation (EC) No 1907/2006

Bio-Multi-Öl 6 in 1 "Aufmachung KUKKO"

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

1.1. Product identifier

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

Use of the substance/mixture

Aerosol

1.3. Details of the supplier of the safety data sheet

Company name: KUKKO Werkzeugfabrik Kleinbongartz & Kaiser oHG
Street: Heinrich-Hertz-Str. 5
Place: 40721 Hilden
Telephone: +49 2103 9754-300
e-mail:
Internet: www.KUKKO.com

1.4. Emergency telephone

number: +49 (0)551-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable

R phrases:
Extremely flammable.

2.2. Label elements

Danger symbols: F+ - Extremely flammable



F+ - Extremely flammable

R phrases

12 Extremely flammable.

S phrases

23 Do not breathe spray .
51 Use only in well-ventilated areas.

Special labelling of certain mixtures

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 a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients



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3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
203-448-7	butane	30 - 35 %
106-97-8	F+ - Extremely flammable R12 Flam. Gas 1, Liquefied gas; H220 H280	
200-827-9	propane	15 - 20 %
74-98-6	F+ - Extremely flammable R12 Flam. Gas 1, Liquefied gas; H220 H280	
279-632-6	Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates	< 1 %
80939-62-4	Xi - Irritant, N - Dangerous for the environment R36/38-51-53 Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H315 H319 H411	
	alpha-(4-dodecylphenyl)-omega-hydroxypoly-(oxy-1,2-ethandiyl)	< 1 %
9014-92-0	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-41-51-53 Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411	
227-813-5	(R)-p-mentha-1,8-diene, d-limonene	< 1 %
5989-27-5	Xi - Irritant, N - Dangerous for the environment R10-38-43-50-53	
601-029-00-7	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H400 H410	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Move victim out of danger zone and lay down. Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water.

4.2. Most important symptoms and effects, both acute and delayed

No symptoms known to now.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media



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Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Water spray jet.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment. Let off heat to prevent increase in pressure.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Guide people to safety. Vapours are heavier than air and will spread at floor level. Wear personal protection equipment.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Ventilate affected area.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. Take precautionary measures against static discharges.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep in a cool, well-ventilated place. Please note: aerosol directive (75/324/EEC).

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions

Recommended storage temperature: 10-30°C Do not store at temperatures over: 50°C

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
74-98-6	propane	1000	1800		TWA (8 h)	AGW
					STEL (15 min)	AGW
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink.

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. Breakthrough times and swelling characteristics of the material must be taken into consideration. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Respiratory protection

Respiratory protection required in case of: exceeding critical value, insufficient ventilation. Only use breathing apparatus with CE-label including the four-digit identification number.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
 Colour: transparent
 Odour: characteristic

Test method

pH-Value: not applicable

Changes in the physical state

Boiling point: < -20 °C
 Flash point: < -20 °C
 Lower explosion limits: 1,4 vol. %
 Upper explosion limits: 10,8 vol. %
 Ignition temperature: 365 °C
 Density: 0,685 g/cm³ calculated.
 Water solubility: virtually insoluble
 Viscosity / kinematic: not applicable

9.2. Other information

none/none

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available



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10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Take precautionary measures against static discharges. See protective measures under point 7 and 8.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In use, may form flammable/explosive vapour-air mixture. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

No data available

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
106-97-8	butane				
	inhalative (4 h) gas	LC50	658 ppm	Rat	GESTIS
80939-62-4	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates				
	oral	LD50 mg/kg	>2000	Rat.	
	dermal	LD50 mg/kg	>2000	Rat.	
9014-92-0	alpha-(4-dodecylphenyl)-omega-hydroxypoly-(oxy-1,2-ethandiyl)				
	oral	ATE	500 mg/kg		
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene				
	oral	LD50 mg/kg	> 2000	Rat	
	dermal	LD50 mg/kg	> 2000	Rabbit	IUCLID

Irritation and corrosivity

No data available

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

Specific effects in experiment on an animal

No data available



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Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

No data available

CAS No	Chemical name	Method	Dose	h	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene					
	Acute fish toxicity	LC50	0,7 mg/l	96	Pimephales promelas	
	Acute crustacea toxicity	EC50	0,42 mg/l	48	Daphnia magna	

12.2. Persistence and degradability

Product is biodegradable.

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,23

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.

Contaminated packaging

Water (with cleaning agent). Completely emptied packings can be re-cycled. Waste disposal according to official state regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1



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Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

14.1. UN number: 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

14.1. UN number: 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: See SP277
EmS: F-D, S-U

Other applicable information (marine transport)

E0

14.5. Environmental hazards

Dangerous for the environment: no

14.6. Special precautions for user

No special precautionary measures are necessary.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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EU regulatory information

1999/13/EC (VOC): 50,168 % (343,647 g/l)

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

- 10 Flammable.
- 12 Extremely flammable.
- 22 Harmful if swallowed.
- 36/38 Irritating to eyes and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

Full text of H statements referred to under Sections 2 and 3

- H220 Extremely flammable gas.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)