

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4700 MultiOil

Revision date: 14.01.2020

Product code: 70633

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

1.1. Product identifier

4700 MultiOil

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

Use of the substance/mixture

Lubricants, greases, release products

1.3. Details of the supplier of the safety data sheet

Company name: KERONA GmbH
 Street: Zeilbaumweg 15
 Place: D-74613 Öhringen
 Telephone: +49 7941-9205 4080
 e-mail: mail@kerona.de
 Contact person: Dr. Hans Goetz
 e-mail: hans.goetz@kerona.de
 Internet: www.kerona.de

Telephone: +49 170-8548 710

1.4. Emergency telephone number:

+49 761-19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aerosol: Aerosol 1

Aspiration hazard: Asp. Tox. 1

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics

Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics

Hydrocarbons C10-C13 - n-alkanes - isoalkanes - cyclenes - 2-25% aromates

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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- H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

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.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

- EUH208 Contains Pentane-2,3-dione, Piperonal. May produce an allergic reaction.
Restricted to professional users.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Lubricants, greases, release products

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics			10 - < 20 %
	927-241-2		01-2119471843-32	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412			
64742-53-6	Destillates, with hydrogen treated light containing naphthene			10 - < 20 %
	265-156-6		01-2119480375-34	
	Asp. Tox. 1; H304			
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics			10 - < 20 %
	927-241-2		01-2119471843-32	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412			
64742-82-1	Hydrocarbons C10-C13 - n-alkanes - isoalkanes - cyclenes - 2-25% aromates			5 - < 10 %
	919-164-8		01-2119473977-17	
	STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H372 H304 H412			
	Calcium alkyl-naphthalenesulfonate			0.1 - < 5 %
			01-2119980985-16	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
95-38-5	2-(2-Heptadec-8-enyl-2-imidazolyl)ethanol			0.1 - < 5 %
	202-414-9		01-2119777867-13	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H373 H400 H410			
110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine			0.1 - < 5 %
	203-749-3			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1; H332 H315 H318 H400			
600-14-6	Pentane-2,3-dione			0.1 - < 5 %
	209-984-8			
	Flam. Liq. 2, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, STOT RE 2; H225 H315 H318 H317 H373			
120-57-0	Piperonal			0.1 - < 5 %
	204-409-7			
	Skin Sens. 1; H317			

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

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons, perfumes.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention.

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After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Dry extinguishing powder, Foam.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

The product needs to apply neutralizing agents before draining to wastewater treatment plants. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head space of closed systems. Caution! Transport usually takes place at temperatures above the flash point.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on joint storage

Do not store together with: Material, oxygen-rich, oxidizing. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep away from heat.

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
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics			
	Consumer DNEL, long-term	oral	systemic	300 mg/kg bw/day
	Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Consumer DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	1500 mg/m ³
	Consumer DNEL, long-term	inhalation	systemic	900 mg/m ³
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics			
	Consumer DNEL, long-term	oral	systemic	300 mg/kg bw/day
	Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Consumer DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	1500 mg/m ³
	Consumer DNEL, long-term	inhalation	systemic	900 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

No data available

Protective and hygiene measures

Remove contaminated, saturated clothing immediately.

After work, wash hands and face.

When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

NR (natural rubber, natural latex) > 0,4 mm, Breakthrough time (maximum wearing time) > 480 min EN ISO 374

Skin protection

Wear suitable protective clothing. Wear anti-static footwear and clothing

Respiratory protection

Use suitable breathing apparatus. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	light yellow
Odour:	characteristic

Test method

Changes in the physical state

Melting point:	No data available	
Initial boiling point and boiling range:	-42 °C	
Flash point:	>-31 °C	
Lower explosion limits:	0,6 vol. %	
Upper explosion limits:	9,4 vol. %	
Ignition temperature:	200 °C	
Density (at 20 °C):	0,66 g/cm ³	ASTM D 1296
Bulk density:		ISO 1183 (A)
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
		OECD 105

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours. Exothermic reaction with: Alkali (lye); Strong acid; Oxidising agent, strong

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Oxidising agent, strong. Strong acid. Alkali (lye)

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide (CO₂) Carbon monoxide Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics				
	oral	LD50 >5000 mg/kg	Rat		OECD 401 eq.
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics				
	oral	LD50 >5000 mg/kg	Rat		OECD 401 eq.
95-38-5	2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol				
	oral	ATE 500 mg/kg			
110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine				
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Contains Pentane-2,3-dione, Piperonal. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics; Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics)

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Hydrocarbons C10-C13 - n-alkanes - isoalkanes - cyclenes - 2-25% aromates)

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

Observations relevant to classification

May be harmful if swallowed, in contact with skin or if inhaled.

Other observations

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

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12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)**

<u>14.1. UN number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625

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Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1
 Special Provisions: 63, 190, 277, 327, 344, 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1
 Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics; Distillates, with hydrogen treated light containing naphthene; Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics; Hydrocarbons C10-C13 - n-alkanes - isoalkanes - cyclenes - 2-25% aromates
 Entry 29: butane

2010/75/EU (VOC): 90,528 % (597,488 g/l)

National regulatory information

Employment restrictions: Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.
 Water hazard class (D): 3 - strongly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

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Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
STOT SE 3; H336	Bridging principle "Aerosols"
STOT RE 1; H372	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Pentane-2,3-dione, Piperonal. May produce an allergic reaction.

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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Lubricating agent	PW, C	-	24	11	-	-	7, 80	

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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