

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4715 Power rust dissolver, mineral oil free 250 ml

Print date: 29.06.2015

Product code: 91616

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

4715 Power rust dissolver, mineral oil free 250 ml

1.2. Relevant identified uses of the substance or mixture and uses advised against**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	Telefax: +49 7941-9205 4090
e-mail:	mail@kerona.de	
Contact person:	Dr. Hans Götz	Telephone: +49 170-8548 710
e-mail:	hans.goetz@kerona.de	
Internet:	www.kerona.de	

1.4. Emergency telephone number:

+49 761-19 240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F+ - Extremely flammable
R phrases:
Extremely flammable.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Aerosol: Aerosol 1
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory/skin sensitization: Skin Sens. 1
Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.

2.2. Label elements**Hazardous components which must be listed on the label**

Cinnamaldehyde

Signal word: Danger
Pictograms: GHS02-GHS07

**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.

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P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH208 Contains

Cinnamaldehyde. May produce an allergic reaction.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
205-516-1	Ethyl acetoacetate	10 - < 20 %
141-97-9	Xi - Irritant R36	
	Eye Irrit. 2; H319	
204-634-0	acetylacetone, pentane-2,4-dione	0.1 - < 5 %
123-54-6	Xn - Harmful R10-22	
606-029-00-0	Flam. Liq. 3, Acute Tox. 4; H226 H302	
203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether	0.1 - < 5 %
107-98-2	R10-67	
603-064-00-3	Flam. Liq. 3, STOT SE 3; H226 H336	
204-317-7	Methyl salicylate	0.1 - < 5 %
119-36-8	Xn - Harmful, Xi - Irritant R22-36/37/38	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H315 H319 H335	
203-213-9	Cinnamaldehyde	0.1 - < 5 %
104-55-2	Xn - Harmful, Xi - Irritant R21-36/38-43	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H312 H315 H319 H317	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection! Move victim out of danger zone.

Never give anything by mouth to an unconscious person or a person with cramps. Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. Put victim at rest, cover with a blanket and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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After contact with eyes

Protect uninjured eye. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Seek medical advice immediately. Do NOT induce vomiting. If unconscious place in recovery position and seek medical advice.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Atomized water. Carbon dioxide (CO₂). Extinguishing powder. alcohol resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Im Brandfall können entstehen: Gefährliche Zersetzungsprodukte.

5.3. Advice for firefighters

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

Additional information

In case of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Heating causes rise in pressure with risk of bursting.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8. Use personal protection equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Provide adequate ventilation as well as local exhaust at critical locations. Avoid breathing dust/fume/gas/mist/vapours/spray. Vapours are heavier than air and will spread at floor level.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Personal protection equipment: see section 8 Use only in well-ventilated areas. Do not breathe gas/vapour/aerosol. Avoid contact with skin and eyes. Do not spray on naked flames or any incandescent material. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

Advice on protection against fire and explosion

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting. Keep away from sources of ignition. - No smoking. Take

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precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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.

Advice on storage compatibility

Keep away from: Oxidizing agents. Strong acid. Strong alkali

Keep away from food, drink and animal feedingstuffs.

Do not store together with: Self-reactive substances and mixtures

Further information on storage conditions

No hazardous reaction when handled and stored according to provisions.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

SECTION 16: Other information

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection

Wear eye/face protection.

Hand protection

NBR (Nitrile rubber).

Thickness of the glove material >0,4 mm

Neoprene

Thickness of the glove material >0,4 mm

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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:	white
Odour:	fruity

Test method

pH-Value (at 20 °C):	5,0-7,0
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Changes in the physical state

Density (at 24 °C):	0,840 g/cm ³
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The product is stable under storage at normal ambient temperatures.
Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from heat. Flame

10.5. Incompatible materials

Materials to avoid: Strong acid. Oxidizing agents. strong alkalis

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide. Sulphur oxides

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
123-54-6	acetylacetone, pentane-2,4-dione				
	oral	LD50	575 mg/kg	Rat	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50	> 5000 mg/kg	Rat	IUCLID
	dermal	LD50	11000 mg/kg	Rabbit	
119-36-8	Methyl salicylate				
	oral	ATE	500 mg/kg		
104-55-2	Cinnamaldehyde				
	dermal	ATE	1100 mg/kg		

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Irritation and corrosivity

Has degreasing effect on the skin.

Sensitising effects

No data available

STOT-single exposure

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience
Observations relevant to classification

No data available

Other observations

No data available

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
123-54-6	acetylacetone, pentane-2,4-dione					
	Acute fish toxicity	LC50	72 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	75 mg/l	48 h	Daphnia magna	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50 mg/l	4600 - 10000	96 h	Leuciscus idus	IUCLID
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	> 500 mg/l	48 h	Daphnia magna	IUCLID

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-54-6	acetylacetone, pentane-2,4-dione	0,4
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437

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

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Remove according to the regulations.

Waste disposal number of waste from 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 dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

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

Waste disposal number of 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 dangerous substances
Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1950
<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
Transport category:	2
Tunnel restriction code:	D

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	UN1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	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

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Marine transport (IMDG)

14.1. UN number:	UN1950
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

Air transport (ICAO)

14.1. UN number:	UN1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
Hazard label:	2.1
Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

Other applicable information (air transport)

E0

Passenger-LQ: Y203

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC):	70,10
	The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

National regulatory information

Employment restrictions:	Observe employment restrictions for young people.
Water contaminating class (D):	1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant R-phrases (Number and full text)

10	Flammable.
21	Harmful in contact with skin.
22	Harmful if swallowed.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
36/38	Irritating to eyes and skin.
43	May cause sensitisation by skin contact.
67	Vapours may cause drowsiness and dizziness.

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Relevant H- and EUH-phrases (Number and full text)

H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH208	Contains Cinnamaldehyde. 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.

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