

No. 1907/2006 (REACH)
Printed 21.12.2018

revision 20.12.2018 (GB) Version 9.3

RIEGLER Spray cleaner / 500 ml

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

1.1. Product identifier

Name of product

RIEGLER Spray cleaner / 500 ml

Code-Nr. R3160/500 / ID-Nr. 114575

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

Recommended intended purpose(s)

Technical Aerosols

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor RIEGLER & Co. KG

Schützenstr. 27, D-72574 Bad Urach

Phone: +49 (0) 7125/9497-0, Fax: +49 (0) 7125/9497-97

E-Mail : zedok@riegler.de Internet : www.riegler.de

Advice Abteilung eDocumentation

Phone : +49 (0) 7125/9497-0 Fax : +49 (0) 7125/9497-97 E-mail (competent person):

zedok@riegler.de

1.4. Emergency telephone number

Emergency advice Giftnotrufzentrale Bonn

Phone : +49(0)228-19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard Hazard Statements Classification procedure categories

Aerosol 1 H222, H229

 Skin Irrit. 2
 H315

 Eye Irrit. 2
 H319

 STOT SE 3
 H336

Asp. Tox. 1 - H304 (Aerosol: not applicable)

Aquatic Chronic 2 H411

Hazard Statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements



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Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]







GHS02

GHS07

GHS09

Signal word

Danger

Hazard Statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out of reach of children.
P210 P211 P251 P261 P264 P271 P273	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
P302 + P352 P304 + P340 P305 + P351 + P338 P312 P332 + P313 P337 + P313 P362	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling

acetone, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, propan-2-ol

Special rules for supplemental label elements for certain mixtures

Contains (R)-p-Mentha-1,8-dien. May produce an allergic reaction.

2.3. Other hazards

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.



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Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Preparation of different active substances

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
64-17-5	200-578-6	ethanol	2,5 < 5	Flam. Liq. 2, H225
67-63-0	200-661-7	propan-2-ol	2,5 < 5	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
67-64-1	200-662-2	acetone	10 - 19,99	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
75-28-5	200-857-2	isobutane	5 < 10	Flam. Gas 1, H220 / Press. Gas
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene	0,1 < 1	Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
124-38-9	204-696-9	carbon dioxide	2,5 - 5	
74-98-6	200-827-9	propane	2,5 - 5	Flam. Gas 1, H220 / Press. Gas, H280
64742-49-0	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	25 < 50	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336
64742-49-0	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	25 < 50	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336

REACH

CAS No	Name	REACH registration number
64-17-5	ethanol	01-2119457610-43
67-63-0	propan-2-ol	01-2119457558-25
67-64-1	acetone	01-2119471330-49
75-28-5	isobutane	01-2119485395-27
5989-27-5	(R)-p-mentha-1,8-diene	01-2119529223-47
74-98-6	propane	01-2119486944-21
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	01-2119475515-33
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	01-2119475514-35-xxxx

Labelling for contents according to regulation (EC) No 648/2004, annex VII

less than 5 % scents (D-LIMONENE) 30 % and more aliphatic hydrocarbons

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.



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In case of skin contact

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Medical treatment.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam

Dry powder

Carbon dioxide

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

May lead to formation of explosive/easily ignitable vapour air mixtures.

Danger of bursting

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains/surface waters/groundwater.



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6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust). Disposal according to regulations.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Do not spray on a naked flame or any incandescent material.

Pressurized container.

Do not pierce or burn even after use.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Avoid effect of heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

Further information on storage conditions

Protect from heat and direct solar radiation.

Keep container in a well-ventilated place

Storage temperature may not exceed 50°C (=122°F).

Keep in a cool place.

Recommended storage temperature: room temperature.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

! Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
67-64-1	Acetone	8 hours Short-term	1210 3620	500 1500	EH40/2005
106-97-8	Butane	8 hours Short-term	1450 1810	600 750	EH40/2005



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CAS No	Name	Code	[mg/m3]	[ppm]	Remark
124-38-9	Carbon dioxide	8 hours Short-term	9150 27400	5000 15000	EH40/2005
64-17-5	ethanol	8 hours	1920	1000	EH40/2005
67-63-0	propan-2-ol	8 hours Short-term	999 1250	400 500	EH40/2005
Indicative oc	cupational exposure limit values (91/322/EEC, 20	00/39/EC, 2006/15/E	C or 2009/1	61/EU)
CAS No	Name	Code	[mg/m3]	[ppm]	Remark
124-38-9 67-64-1 DNEL-/PNEC	carbon dioxide acetone	8 hours 8 hours	9000 1210	5000 500	
DNEL worker					
CAS No	Substance name	Value	Code		Remark
64-17-5	ethanol	1900 mg/m3	DNEL acute inhalative	e (local)	
		343 mg/kg	DNEL long-term derm	al (systemic)	
		950 mg/m3	DNEL acute inhalative	e (systemic)	
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	773 mg/kg bw/day	DNEL long-term derm	al (systemic)	
		2035 mg/m3	DNEL long-term inhala (systemic)	ative	
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	300 mg/kg bw/day	DNEL long-term derm	al (systemic)	
		2085 mg/m3	DNEL acute inhalative	e (systemic)	
67-63-0	propan-2-ol	500 mg/m3	DNEL long-term inhala (systemic)	ative	
		888 mg/kg bw/day	DNEL long-term derm	al (systemic)	
67-64-1	acetone	1210 mg/m3	DNEL long-term inhala (systemic)	ative	
		2420 mg/m3	DNEL acute inhalative	, ,	
		186 mg/kg	DNEL long-term derm	al (systemic)	
DNEL Consu	mer				
CAS No	Substance name	Value	Code		Remark
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	447 mg/m3	DNEL long-term inhala (systemic)	ative	
		149 mg/kg bw/day	DNEL long-term oral (repeated)	
		149 mg/kg bw/day	DNEL long-term derm	al (systemic)	
PNEC					
CAS No	Substance name	Value	Code		Remark
67-64-1	acetone	3,04 mg/kg	PNEC sediment, mari	ne water	
		1,06 mg/l	PNEC aquatic, marine	e water	
		30,4 mg/kg	PNEC sediment, fresh	water	



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DNEL-/PNEC-values (continued)

CAS No Substance name Value Code Remark

10,6 mg/l PNEC aquatic, freshwater

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Short term: filter apparatus, filter AX

! Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceColourOdouraerosolcolourless, clearcharacteristic

Odour threshold not determined

Important health, safety and environmental informati

Important health, safety and environmental information					
	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	not applicable				
Melting point / Freezing point	not determined				
Flash point	not applicable				Aerosol
Vapourisation rate	not applicable				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	> 200 °C				



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not determined			_	The product is not
ot determined				self-igniting.
not determined				
ot determined				
),699 g/cm3	20 °C			
not determined				
				No or low immiscibilit
not determined				
oot determined				
oot determined				
ot applicable				
not applicable				
7,4 %				
100	ot determined ot determined ot determined ot determined ot determined ot applicable ot applicable	,699 g/cm3 20 °C ot determined ot determined ot determined ot determined ot applicable ot applicable	ot determined ot determined ot determined ot determined ot determined ot applicable ot applicable	ot determined ot determined ot determined ot determined ot applicable ot applicable

9.2. Other information

No information available.

! SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep away from heat.

Formation of explosive gas/air mixtures.

10.5. Incompatible materials

No information available.



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10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2000 mg/kg			ATE
LD50 acute dermal	> 2000 mg/kg			ATE
LC50 acute inhalation	581 mg/l ()			ATE
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	non-sensitizing			
Sensitization respiratory system	no			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction- Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

! Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Experiences made from practice

Irritates mucous membranes.

Irritates eyes and skin.

Inhalation causes narcotic effect/intoxication.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.



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! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

Value Species Method Validation

Daphnia EC50 3 mg/l (48 h) CAS: 64742-49-0

12.2. Persistence and degradability

Elimination rate Method of analysis Method Validation

Biological degradability

The product is slightly degradable.

12.3. Bioaccumulative potential

Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

General regulation

Toxic to aquatic life with long lasting effects.

Even in the event of low quantities penetration into the underground drinking water is contaminated.

Toxic to fishes.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

Harmfull to fishes and bacteria.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

Name of waste

15 01 04

metallic packaging

16 05 04* gases in pressure containers (including halons) containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

For proper waste disposal a complete emptying of the tin is necessary.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950



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	ADR/RID	IMDG	IATA-DGR
14.2. UN proper shipping name	AEROSOLS (Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics)	AEROSOLS (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	Aerosols, flammable (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user

Caution: Gases

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 2.1 tunnel restriction code D Classification code 5F

transport in "limited quantities" according to 3.4 ADR is possible

Marine transport IMDG

MARINE POLLUTANT

! SECTION 15: Regulatory information

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

VOC standard

 VOC content
 97,44 %

 VOC value
 681,4 g/L

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EUdirectives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 9.2

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.



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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.