

No. 1907/2006 (REACH) Printed 12.06.2017

01.12.2015 (GB) Version 8.3 revision RIEGLER Stainless steel maintenance spray /

400 ml

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

1.1. Product identifier

Name of product RIEGLER Stainless steel maintenance spray / 400 ml

Code-Nr. R3280/400 / ID-Nr. 114567

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Technical Aerosols

Advice

1.3. Details of the supplier of the safety data sheet

RIEGLER & Co. KG Manufacturer/distributor

Schützenstr. 27, D-72574 Bad Urach

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

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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 STOT SE 3 H336 **Aquatic Chronic 2** H411

Hazard Statements

H222 Extremely flammable aerosol.

Pressurised container: May burst if heated. H229

H315 Causes skin 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.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out	of reach	٥f	children
P102	Need out	orreach	ΟI	chilaren.

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 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.

Special rules for supplemental label elements for certain mixtures

Contains (R)-(+)-Limonene . May produce an allergic reaction.

2.3. Other hazards

Product has an anesthetic effect.

Information pertaining to special dangers for human and environment

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

Results of PBT and vPvB assessment

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



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SECTION 3: Composition/information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Mixture of oils, solvents and propellant.

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	10 - 24,99	Flam. Liq. 2, H225
106-97-8	203-448-7	butane	10 - 24,99	Flam. Gas 1, H220 / Press. Gas
111-76-2	203-905-0	2-butoxyethanol	10 - 19,99	Acute Tox. 4, H332 / Acute Tox. 4, H312 /
				Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene	0,3 - 0,99	Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
64742-48-9	919-857-5	Naphtha (petroleum), hydrotreated heavy	10 - 24,99	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STO1 SE 3, H335 / , EUH066
74-98-6	200-827-9	propane	10 - 24,99	Flam. Gas 1, H220 / Press. Gas
		Mineral Oil	3 - 9,99	Asp. Tox. 1, H304
64742-49-0	921-024-6	Naphtha (petroleum), hydrotreated light	10 - 19,99	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 STOT SE 3, H336

STOT SE 3, H336

REACH

CAS No	Name	REACH registration number
5989-27-5	(R)-p-mentha-1,8-diene	01-2119529223-47
64742-48-9	Naphtha (petroleum), hydrotreated heavy	01-211946325833-xxxx
74-98-6	propane	01-2119486944-21
64742-49-0	Naphtha (petroleum), hydrotreated light	01-2119475514-35

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

less than 5 % scents

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.

In case of skin contact

In case of contact with skin wash off with 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.



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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

Alcohol-resistant foam

Dry powder

Carbon dioxide

water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Danger of bursting

In case of fire formation of dangerous gases possible.

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.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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 or bodies of water..

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

6.3. Methods and material for containment and cleaning up

Take up with absorbent material.

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not spray into flames or any incandescent material.

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.

Avoid effect of heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

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

Further information on storage conditions

Protect from direct solar radiation.

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

Store container at cool and aired place.

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
106-97-8	Butane	8 hours Short-term	1450 1810	600 750	EH40/2005
111-76-2	2-butoxyethanol	8 hours Short-term		25 50	EH40/2005
64-17-5	ethanol	8 hours	1920	1000	EH40/2005

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark	
111-76-2	2-butoxyethanol	8 hours	98	20	skin	_
		Short-term	246	50		



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DNEL-/PNEC-values DNEL worker

CAS No	Substance name	Value	Code	Remark
64-17-5	ethanol	1900 mg/m3	DNEL acute inhalative (local)	
		343 mg/kg	DNEL long-term dermal (systemic)	
		950 mg/m3	DNEL acute inhalative (systemic)	
64742-49-0	Naphtha (petroleum), hydrotreated light	773 mg/kg bw/day	DNEL long-term dermal (systemic)	
		2035 mg/m3	DNEL long-term inhalative (systemic)	

DNEL Consumer

CAS No	Substance name	Value	Code	Remark
64742-49-0	Naphtha (petroleum), hydrotreated light	699 mg/kg bw/day	DNEL long-term oral (repeated)	
		699 mg/kg bw/day	DNEL long-term dermal (systemic)	
		608 mg/m3	DNEL long-term inhalative (systemic)	

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/P2, otherwise environment-independent breathing apparatus.

Hand protection

Gloves (solvent-resistant)

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

Glove material specification: Nitile rubber

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.

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 Appearance Colour

AppearanceColourOdouraerosolcolourless, clearsolvent-like

Odour threshold



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not determined

Important health, safety and environmental information

Important health, safety and	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 applicable				
Flammability (gas)	not applicable				
Ignition temperature	200 °C				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	0,6 Vol-%				
Upper explosion limit	15 Vol-%				
Vapour pressure	8300 hPa	20 °C			
Relative density	0,693 g/ml	20 °C			
Vapour density	not determined				
Solubility in water					No or low immiscib
Solubility/other	not determined				
Partition coefficient noctanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Solvent content	95,2 %				

Oxidising properties

No information available.

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixtures can be generated.

9.2. Other information

No information available.



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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat.

Formation of explosive gas/air mixtures.

10.5. Incompatible materials

No information available.

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	470 mg/kg	rat		2-Butoxyethanol
LD50 acute dermal	2000 mg/kg	rabbit		2-Butoxyethanol
LC50 acute inhalation	> 25 mg/l (4 h)	rat		Naphtha
Skin irritation	irritant			
Eye irritation	non-irritant			
Skin sensitization	non-sensitizing			

Experiences made from practice

Vapours may cause dizziness, headaches and tiredness Irritates mucous membranes.

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	
Fish	LC50 1490 mg/l (96 h)	Lepomis macrochirus		2-Butoxyethanol	-
Daphnia	LL/EL/IL50 3 mg/l (48 h)	Daphnia magna		Naphtha	
Algae	LL/EL/IL50 > 1000 mg/l (72 h)	Pseudokirchneriella subcapitata		Naphtha	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

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, fishes and plankton.

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

Do not allow uncontrolled leakage of product into the environment.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No. Name of waste

07 01 04* other organic solvents, washing liquids and mother liquors

20 01 99 other fractions not otherwise specified

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.



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SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

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

SECTION 15: Regulatory information

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

VOC standard

VOC content 95,16 % **VOC value** 659,5 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 EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.



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H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory 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.