

No. 1907/2006 (REACH)
Printed 21.12.2018

revision 21.12.2018 (GB) Version 9.3 **RIEGLER Stainless steel 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 spray / 400 ml
Code-Nr. R3240/400 / ID-Nr. 114578

# 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

 Eye Irrit. 2
 H319

 STOT SE 3
 H336

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

Aquatic Chronic 3 H412

#### **Hazard Statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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

H412 Harmful 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

### Signal word

Danger

#### **Hazard Statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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

H412 Harmful 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.
P304 + P340 P305 + P351 + P338 P312 P337 + P313	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 eye irritation persists: Get medical advice/attention.
P403 + P233 P403 + P235 P405 P410 + P412	Store in a well-ventilated place. Keep container tightly closed.  Store in a well-ventilated place. Keep cool.  Store locked up.  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, ethyl-acetate, Solvent naphtha (petroleum), light arom. (NOTA P), xylene

# Supplemental Hazard information (EU)

Repeated exposure may cause skin dryness or cracking.

# Special rules for supplemental label elements for certain mixtures

Contains Nickel . 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.



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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

Mixture of active ingredients with propellant

#### **Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-64-1	200-662-2	acetone	10 - 20	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
106-97-8	203-448-7	butane	20 < 25	Flam. Gas 1, H220 / Press. Gas
141-78-6	205-500-4	ethyl-acetate	3 < 10	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1314-13-2	215-222-5	zinc oxide	0,25 - 1	Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
7440-02-0	231-111-4	nickel powder [particle diameter < 1 mm]	0,25 - 0, 99	Carc. 2, H351 / STOT RE 1, H372 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy	1 < 10	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 / , EUH066
64742-95-6	265-199-0	Solvent naphtha (petroleum), light arom. (NOTA P)	2,5 < 10	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H335, H336 / Aquatic Chronic 2, H411 / Skin Irrit.2, H315 / , EUH066
74-98-6	200-827-9	propane	20 < 25	Flam. Gas 1, H220 / Press. Gas, H280
1330-20-7	215-535-7	xylene	5 < 10	Flam. Liq. 3, H226 / STOT RE 2, H373 / Asp. Tox. 1, H304 / Acute Tox. 4, H312, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3, H335

# REACH

CAS No	Name	REACH registration number
67-64-1	acetone	01-2119471330-49
106-97-8	butane	01-2119474691-32
141-78-6	ethyl-acetate	01-2119475103-46
1314-13-2	zinc oxide	01-2119463881-32
7440-02-0	nickel powder [particle diameter < 1 mm]	01-2119438727-29
64742-48-9	Naphtha (petroleum), hydrotreated heavy	01-2119463258-33
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	01-2119455851-35
74-98-6	propane	01-2119486944-21
1330-20-7	xylene	01-2119488216-32

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

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 immediately with soap and water.

Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment

#### In case of ingestion

Seek medical advice.

Do not induce vomiting.

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

Physician's information / possible symptoms

The following symptoms may occur:

Unconsciousness

Anaesthetic state

Headache

Confusion

Dizziness

# 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

sand

# 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**

Vapours are heavier than air and will spread on the ground.

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.



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#### 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.

#### **Additional Information**

Sort out leaky cans and dispose according to regulations.

#### 6.4. Reference to other sections

No information available.

# **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

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

#### 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 direct solar radiation.

Store container at cool and aired place.

Protect from heat/overheating.

# 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	1210	500	EH40/2005
		Short-term	3620	1500	
141-78-6	Ethyl acetate	8 hours		200	EH40/2005
		Short-term		400	



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# Ingredients with occupational exposure limits to be monitored (continued)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours	220	50	EH40/2005
		Short-term	441	100	

#### 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
67-64-1 DNEL-/PNEC DNEL worker		8 hours	1210	500	
CAS No	Substance name	Value	Code		Remark
1314-13-2	zinc oxide	5 mg/m3	DNEL long-term inhalative (systemic)	е	
		83 mg/kg	DNEL long-term dermal (	systemic)	
1330-20-7	xylene	180 mg/kg	DNEL long-term dermal (	systemic)	
		289 mg/m3	DNEL acute inhalative (sy	/stemic)	
		289 mg/m3	DNEL acute inhalative (lo	cal)	
		77 mg/m3	DNEL long-term inhalative (systemic)	е	
		289 mg/m3	DNEL acute inhalative (lo	cal)	
141-78-6	ethyl-acetate	1468 mg/m3	DNEL acute inhalative (lo	cal)	
		1468 mg/m3	DNEL acute inhalative (sy	/stemic)	
		734 mg/m3	DNEL long-term inhalative	e (local)	
		63 mg/kg	DNEL long-term dermal (	systemic)	
64742-48-9	Naphtha (petroleum), hydrotreated heavy	300 mg/kg	DNEL long-term dermal (	systemic)	
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	25 mg/kg	DNEL long-term dermal (	systemic)	
		150 mg/m3	DNEL long-term inhalative (systemic)	е	
67-64-1	acetone	2420 mg/m3	DNEL acute inhalative (lo	cal)	
		1210 mg/m3	DNEL long-term inhalative (systemic)	е	
		186 mg/kg	DNEL long-term dermal (	systemic)	
7440-02-0	nickel powder [particle diameter < 1 mm]	0,05 mg/m3	DNEL acute inhalative (lo	cal)	
		0,05 mg/m3	DNEL acute inhalative (sy	/stemic)	
		0,07 mg/cm2	DNEL acute dermal, shor (local)	t-term	
PNEC					
CAS No	Substance name	Value	Code		Remark
1314-13-2	zinc oxide	56,5 mg/kg	PNEC sediment, marine	water	
		117,8 mg/kg	PNEC sediment, freshwa	ter	
		0,0061 mg/l	PNEC aquatic, marine wa	ater	
		0,0206 mg/l	PNEC aquatic, freshwate	r	



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#### **DNEL-/PNEC-values (continued)**

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CAS No	Substance name	Value	Code	Remark
1330-20-7	xylene	12,46 mg/kg	PNEC sediment, marine water	
		12,46 mg/kg	PNEC sediment, freshwater	
		0,327 mg/l	PNEC aquatic, freshwater	
		2,31 mg/kg	PNEC sediment, freshwater	
		0,327 mg/l	PNEC aquatic, marine water	
141-78-6	ethyl-acetate	0,34 mg/kg	PNEC sediment, freshwater	
		0,24 mg/l	PNEC aquatic, freshwater	
		0,024 mg/l	PNEC aquatic, marine water	
		0,115 mg/kg	PNEC sediment, marine water	
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	0,99 mg/kg	PNEC soil, marine water	
67-64-1	acetone	3,04 mg/kg	PNEC sediment, marine water	
		30,4 mg/kg	PNEC sediment, freshwater	
		1,06 mg/l	PNEC aquatic, marine water	
		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/P2, otherwise environment-independent breathing apparatus.

#### 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

Appearance Colour Odour aerosol silver-coloured solvent-like

**Odour threshold** 



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not determined

Important health, safety and environmental information

Value Temperature at Method Remark

pH value not determined

boiling point -44 °C

Melting point / Freezing

point

not determined

Flash point not applicable Aerosol

Vapourisation rate not determined

Flammable (solid) not determined

Flammability (gas) not applicable

**Ignition temperature** > 200 °C estimate

Self ignition temperature

The product is not

self-igniting.

Lower explosion limit 1,5 Vol-%

Upper explosion limit 10,9 Vol-%

Vapour pressure not determined

Relative density not determined

Vapour density not determined

Solubility in water not determined

Solubility/other not determined

Partition coefficient noctanol/water (log P O/W) not determined

Decomposition temperature

not determined

Viscosity dynamic

not determined

Viscosity kinematic

not determined

#### **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

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

#### 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

### 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 dermal	> 5000 mg/kg			ATE
LC50 acute inhalation	> 5 mg/l ()		dust/mist	
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	irritant - risk of strong eye injuries			
Skin sensitization	non-sensitizing			
Subacute Toxicity - C	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.



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#### ! Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

#### **Experiences made from practice**

Often and long skin contact may cause degreasing and desiccation of the skin which may caus skin irritation.

Vapours may cause dizziness, headaches and tiredness

When inhalated, reaction time and coordination sense may be reduced.

Sensitization through skin contact possible.

Risk of strong eye injuries.

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.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No information available.

#### 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.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

# Waste code No.

# Name of waste

08 01 11\* 16 05 04\* waste paint and varnish containing organic solvents or other hazardous substances 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.

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.



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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

### Marine transport IMDG

Transport as limited quantities according to 3.4 IMDG Code is possible.

# ! SECTION 15: Regulatory information

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

**VOC** standard

VOC content 82,3 % VOC value 611 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.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.



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H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312,	-?-
H338	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H335,	-?-
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H372	Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
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.
H412	Harmful to aquatic life with long lasting effects.