

No. 1907/2006 (REACH)
Printed 21.12.2018

revision 21.12.2018 (GB) Version 9.3

## RIEGLER Aluminium spray / 400 ml

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

1.1. Product identifier

Name of product

RIEGLER Aluminium spray / 400 ml
Code-Nr. R3230/400 / ID-Nr. 114577

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

 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

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





GHS02

GHS07



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#### 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 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.

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

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

P338 easy to do. Continue rinsing.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

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

ethyl-acetate

## Supplemental Hazard information (EU)

Repeated exposure may cause skin dryness or cracking.

### 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.

# ! SECTION 3: Composition/ information on ingredients

# 3.1. Substances

not applicable

#### 3.2. Mixtures

### Description

Aluminium spray based on synthetic resin binder, solvent and pigments.



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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	10 < 20	Flam. Gas 1, H220 / Press. Gas
123-86-4	204-658-1	n-butyl acetate	< 10	Flam. Liq. 3, H226 / STOT SE 3, H336
141-78-6	205-500-4	ethyl-acetate	15 < 20	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1330-20-7	215-535-7	xylene	5 < 10	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315
64742-95-6	265-199-0	Solvent naphtha (petroleum), light arom. (NOTA P)	2,5 < 10	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STO SE 3, H335, H336 / Aquatic Chronic 2, H411 Skin Irrit.2, H315 / , EUH066
74-98-6	200-827-9	propane	10 < 20	Flam. Gas 1, H220 / Press. Gas, H280
7429-90-5	231-072-3	Aluminium	< 10	Flam. Sol. 1, H228
REACH				
CAS No	Name			REACH registration number
67-64-1	acetone			01-2119471330-49
106-97-8	butane			01-2119474691-32
123-86-4	n-butyl aceta	te		01-2119485493-29
141-78-6	ethyl-acetate			01-2119475103-46
1330-20-7	xylene			01-2119488216-32
64742-95-6	Solvent naph	tha (petroleum), light arom. (NOTA P)		01-2119455851-35
74-98-6	propane			01-2119486944-21
7429-90-5	Aluminium			01-2119529243-45

# **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.

# 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.

Refer to medical treatment.

# 4.2. Most important symptoms and effects, both acute and delayed Physician's information / possible symptoms

Unconsciousness

vomiting

Respiratory complaints

Headache

Confusion

skin irritation



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# 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

water

### 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.

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 or bodies of water..

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

# 6.3. Methods and material for containment and cleaning up

Keep at a distance of water, take up dry, wear breathing apparatus and personal protective clothing.

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

Ventilate closed rooms at ground level.

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

Keep in closed original container.

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

#### Further information on storage conditions

Protect from heat and 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
67-64-1	Acetone	8 hours	1210	500	EH40/2005
		Short-term	3620	1500	
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	
141-78-6	Ethyl acetate	8 hours		200	EH40/2005
	·	Short-term		400	
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours	220	50	EH40/2005
	• • • • • • •	Short-term	441	100	



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CAS No	Name	Code	[mg/m3]	[ppm]	Remark	
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin	
67-64-1	acetone	Short-term 8 hours	442 1210	100 500		
DNEL-/PNEC						
DNEL worker	r					
CAS No	Substance name	Value	Code		Remark	
123-86-4	n-butyl acetate	11 mg/kg	DNEL long-term dermal (	systemic)		
		960 mg/m3	DNEL acute inhalative (s	ystemic)		
		2 mg/kg	DNEL short-term oral (ac	ute)		
		600 mg/m3	DNEL acute inhalative (lo	ocal)		
		11 mg/kg	DNEL acute dermal, short (systemic)	t-term		
		480 mg/m3	DNEL long-term inhalativ (systemic)	е		
		300 mg/m3	DNEL long-term inhalativ	e (local)		
141-78-6	ethyl-acetate	1468 mg/m3	DNEL acute inhalative (lo	ocal)		
		1468 mg/m3	DNEL acute inhalative (systemic)			
		734 mg/m3	DNEL long-term inhalative (local)			
	63 mg/kg	DNEL long-term dermal (systemic)				
64742-95-6 Solvent naphtha (petroleum), light arom. (NOTA P)	150 mg/m3	DNEL long-term inhalative (systemic)				
	25 mg/kg	DNEL long-term dermal (systemic)				
67-64-1 acetone	186 mg/kg	DNEL long-term dermal (	systemic)			
		2420 mg/m3	DNEL acute inhalative (lo	ocal)		
		1210 mg/m3	DNEL long-term inhalativ (systemic)	е		
7429-90-5	Aluminium	3,72 mg/m3	DNEL long-term inhalativ	e (local)		
PNEC						
CAS No	Substance name	Value	Code		Remark	
123-86-4	n-butyl acetate	0,981 mg/kg	PNEC sediment, freshwa	ter		
		0,18 mg/l	PNEC aquatic, freshwate	r		
		0,018 mg/l	PNEC aquatic, marine wa	ater		
141-78-6	ethyl-acetate	0,115 mg/kg	PNEC sediment, marine	water		
		0,024 mg/l	PNEC aquatic, marine wa	ater		
		0,24 mg/l	PNEC aquatic, freshwate	r		
		0,34 mg/kg	PNEC sediment, freshwa	ter		
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	0,99 mg/kg	PNEC soil, marine water			
67-64-1	acetone	10,6 mg/l	PNEC aquatic, freshwate	r		
		3,04 mg/kg	PNEC sediment, marine	water		
		1,06 mg/l	PNEC aquatic, marine wa	ater		
		30,4 mg/kg	PNEC sediment, freshwa			



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

CAS No	Substance name	Value	Code	Remark
7429-90-5	Aluminium	0.0749 ma/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

Sufficient ventilation and exhaustion.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

AppearanceColourOdouraerosolsilver-greycharacteristic

# Odour threshold

not determined

# 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 determined				
Flammable (solid)	not applicable				
Flammability (gas)	not determined				
Ignition temperature	> 200 °C				estimate



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	Value	Temperature	at	Method	Remark
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined	20 °C			
Relative density	not determined				
Vapour density	not determined				
Solubility in water	not determined				
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	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.

# ! 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



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### 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 - 5000 mg/kg	rat		CAS: 64742-95-6
LD50 acute dermal	1100 mg/kg		Conversion value	Xylene
LC50 acute inhalation	> 5 mg/l (4 h)	rat		Aluminium
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	No data available			

# ! 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

May cause vomiting.

Product may cause irreversible eye injuries.

# **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**

Harmful to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.



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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

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.

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

# **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.



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# ! SECTION 15: Regulatory information

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

**VOC** standard

VOC content 86,4 % VOC value 648 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

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335,	-?-
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.