

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

1.1. Product identifier

Name of product

RIEGLER Copper spray / 400 ml Code-Nr. 3260/400 / ID-Nr. 114580

**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 Hazar categories	Hazard Statements Classification procedure
Aerosol 1	H222, H229
Eye Irrit. 2	H319
STOT SE 3	H336
Aquatic Acute 1	H400
Aquatic Chronic 3	H412
Hazard Statements	
H222 Extre	nely flammable aerosol.

H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

## 2.2. Label elements



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



# Signal word

Danger

#### **Hazard Statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319 H336	Causes serious eye irritation. May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 no 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

## 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

Copper spray based on synthetic resin cement, solvent and pigments. Propellant: propane / butane

#### **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 < 25	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
141-78-6	205-500-4	ethyl-acetate	15 < 20	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
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 / Aquatic Chronic 2, H411 / STOT SE 3, H336 / , EUH066
74-98-6	200-827-9	propane	10 < 20	Flam. Gas 1, H220 / Press. Gas
7440-50-8	231-159-6	copper	2,5 < 10	Acute Tox. 4, H302 / Aquatic Acute 1, H400 / Aquatic Chronic 2, H411

# **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 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

Do not induce vomiting. Refer to 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 Alcohol-resistant foam

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. 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..

#### 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

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 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 dust/fumes/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 Short-term	1210 3620	500 1500	EH40/2005
106-97-8	Butane	8 hours Short-term	1450 1810	600 750	EH40/2005
7440-50-8	Copper: fume	8 hours Short-term	0.2 2		EH40/2005
7440-50-8	Copper: dusts and mists (as Cu)	8 hours	1		EH40/2005
141-78-6	Ethyl acetate	8 hours Short-term		200 400	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
67-64-1	acetone	8 hours	1210	500	

## Additional advice

The statutory local and national regulations have to be observed.

# 8.2. Exposure controls

### **Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.

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**

<b>Appearance</b> aerosol		<b>Colour</b> copper-coloured		Odour characte	eristic
Odour threshold not determined					
mportant health, safety an	d environmental i	information			
	Value	Temperature	at	Method	Remark
pH value	not determined				
poiling point	not applicable				
Melting point / Freezing point	not determined				
Flash point	not applicable				Aerosol
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
gnition temperature	> 200 °C				estimate
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Jpper explosion limit	not determined				
Vapour pressure	not determined				
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				



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Printed 11.12.2015 revision 01.12.2015 (GB) Version 8.3 **RIEGLER Copper spray / 400 ml** 

	Value	Temperature	at	Method	Remark	
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.

## **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	> 2000 mg/kg			Calculated out of the components.
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	irritant			
Skin sensitization	non-sensitizing			

#### 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



Experiences at humans: may cause hypersensitivity reactions on skin in case of persons suffering from hypersensitivity. Risk of strong 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

Very toxic to aquatic life with long lasting effects. 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
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
14.2. UN proper shipping name	AEROSOLS (copper)	AEROSOLS (copper)	Aerosols, flammable (copper)



	ADR/RID	IMDG	IATA-DGR	
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 t Hazard label(s) 2.1 tunnel restriction code D Classification code 5F transport in "limited quantities"		e		
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	85,9 %
VOC value	732,3 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.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.