

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

1.1. Product identifier

Name of product

RIEGLER Repair stick aluminium / 57 g Code-Nr. R115.21 / ID-Nr. 114583

 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)
2-Component Epoxy Resins

#### 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 categories	Hazard Statements Classification procedure
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

#### **Hazard Statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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

Warning

#### Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary Statements**

P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
P338	easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to hazardous or special waste collection point.

### ! Hazardous ingredients for labeling

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

# Special rules for supplemental label elements for certain mixtures

Contains epoxy constituents. May produce an allergic reaction.

# 2.3. Other hazards

#### 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

2-component epoxy sticks

# ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7429-90-5	231-072-3	aluminium powder (stabilised)	1 - 5	Water-react. 2, H261 / Flam. Sol. 1, H228
25068-38-6	500-033-5	reaction product: bisphenol-A-	10 - 20	Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin
		(epichlorhydrin) epoxy resin (number average molecular weight <= 700)		Sens. 1, H317 / Aquatic Chronic 2, H411
65997-17-3	266-046-0	glass, oxide, chemicals	1 - 5	
90-72-2	202-013-9	2,4,6-Tris (dimethylaminomethyl) phenol	1 < 5	Acute Tox. 4, H302 / Skin Corr. 1B, H314 /
				Eye Dam. 1, H318 / Skin Sens. 1B, H317 / Aquatic Chronic 3, H412



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#### Hazardous ingredients (continued) CAS No EC No Name [%] Classification according to Regulation (EC) weight] No 1272/2008 [CLP/GHS] 72244-98-5 615-735-8 3-[3-(3-hydroxypropoxy)-2,2-bis[(3-10 - 20 Skin Sens. 1B, H317 / Aquatic Chronic 3, H412 hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol REACH CAS No **REACH registration number** Name 7429-90-5 aluminium powder (stabilised) 01-2119529243-45 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average 01-2119456619-26 molecular weight <= 700) 2,4,6-Tris (dimethylaminomethyl) phenol 01-2119560597-27 90-72-2 72244-98-5 3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-01-2120118957-46 ol; 3-sulfanylpropane-1,2-diol

# **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

After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

# In case of ingestion

Do not induce vomiting. Call for a doctor immediately.

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

**Physician's information / possible symptoms** vomiting Allergic symptoms

Physician's information / possible dangers allergic reactions

**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 fire-extinguishing substance Carbon dioxide Water spray jet

Unsuitable extinguishing media Full water jet



# 5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible. Nitrogen oxides (NOx) 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.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Ensure adequate ventilation. Remove persons to safety. Use personal protective clothing.

#### 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.

#### 6.3. Methods and material for containment and cleaning up

Send in suitable containers for recovery or disposal. Take up with absorbent material.

### 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

#### 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

Pay attention to general rules of internal fire prevention.

# 7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels

Keep in closed original container.

#### Advice on storage compatibility

Do not store together with acids. Do not store together with oxidizing agents.

#### Further information on storage conditions

Protect from direct solar radiation.

Store container at cool and aired place.



Store in a dry 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
14807-96-6	Talc respirable dust	8 hours	1	EH40/2005
DNEL-/PNEC- DNEL worker	values			
CAS No	Substance name	Value	Code	Remark
25068-38-6	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	8,33 mg/kg bw/day	DNEL long-term dermal (local)	
		12,25 mg/m3	DNEL long-term inhalative (systemic)	
		8,33 mg/kg bw/day	DNEL long-term dermal (systemic)	
7429-90-5	aluminium powder (stabilised)	3,72 mg/m3	DNEL long-term inhalative (local)	
90-72-2	2,4,6-Tris (dimethylaminomethyl) phenol	0,31 mg/m3	DNEL long-term inhalative (systemic)	
PNEC				
CAS No	Substance name	Value	Code	Remark
25068-38-6	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	0,0006 mg/l	PNEC aquatic, marine water	
		0,006 mg/l	PNEC aquatic, freshwater	
		10 mg/l	PNEC sewage treatment plant (STP)	
		0,996 mg/kg	PNEC sediment, freshwater	
		0,0996 mg/kg	PNEC sediment, marine water	
		11 mg/kg	PNEC Secondary Poisoning	
		0,018 mg/l	PNEC aquatic, intermittent release	
90-72-2	2,4,6-Tris (dimethylaminomethyl)	0,084 mg/l	PNEC aquatic, freshwater	
0012-2	phenol			
00 / L-L	phenol	0,0084 mg/l	PNEC aquatic, marine water	

#### ! 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.



#### Hand protection

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

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:: Nitrile rubber; 0,4mm; 480min;60min.

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

Sufficient ventilation and exhaustion.

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

9.1. Information on basic phy	sical and chemical properties	
Appearance	Colour	Odour
pasty	grey	hardly noticeable
Odour threshold not determined		

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				
boiling point	> 35 °C		ca. 101 kPa		
melting point	not applicable				
Flash point	> 100 °C				
Vapourisation rate	not applicable				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	< 500 Pa	20 °C			
Relative density	1,9 - 2 g/cm3	20 °C			
Vapour density	not applicable				
Solubility in water					insoluble



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	Value	Temperature	at	Method	Remark
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	not applicable				
Viscosity kinematic	not applicable				
<b>Oxidising properties</b> No information available.					
Explosive properties not applicable					
<b>9.2. Other information</b> 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

Reactions with acids and strong oxidising agents.

# 10.4. Conditions to avoid

No information available.

# 10.5. Incompatible materials

Substances to avoid Amines Acid Oxidising agent, strong

#### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide. Nitrous oxides (NOx) Toxic gases/vapours

#### Thermal decomposition

Remark No decomposition if

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	20000 mg/kg			ATE
LD50 acute dermal	1200 mg/kg	rat		CAS: 25068-38-6
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	sensitizing			

#### **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.
<b>Experiences made from practice</b> Sensitization through skin contact possible. Irritates eyes and skin.			
Additional information			

#### 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

# **Ecotoxicological effects**

U	Value	Species	Method	Validation	
Fish	LC50 2 mg/l (96 h)	Oncorhynchus	mykiss	CAS: 25068-38-6	
Daphnia	EC50 1,8 mg/l (48 h)	Daphnia magna	a	CAS: 25068-38-6	
Algae	EC50 220 mg/l (96 h)	Scenedesmus subspicatus		CAS: 25068-38-6	
12.2. Persister	nce and degradability Elimination rate	Method of analysis	Method	Validation	
Biological degradability	12 % (28 d)			not degradable	
	CAS: 25068-38-6				



#### 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

#### <sup>1</sup> General regulation

Harmful 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, drains or sewage treatment plants.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

**Recommendations for the product** Remove in accordance with local official regulations.

#### **Recommendations for packaging**

Uncontaminated packaging may be treated as household waste. Packaging that cannot be cleaned should be disposed of like the product.

#### **General information**

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	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	6 -	-	-

# 14.6. Special precautions for user

No information available.

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

#### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.



# **! SECTION 15: Regulatory information**

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

#### VOC standard VOC content

0 %

## 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: 9.1

- H228 Flammable solid.
- H261 In contact with water releases flammable gases.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.