



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

1.1. Product identifier

Name of product Repair Stick Titanium
Code-Nr. 105350

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

Distributor

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

! 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
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Aquatic Chronic 3	H412	
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Hazard Statements

H412	Harmful to aquatic life with long lasting effects.
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2.2. Label elements

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

Hazard Statements

H412	Harmful to aquatic life with long lasting effects.
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**Repair Stick Titanium****Precautionary Statements**

- P262 Do not get in eyes, on skin, or on clothing.
P273 Avoid release to the environment.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special rules for supplemental label elements for certain mixtures

Contains Bisphenol-A-Epoxy resin (Number average MW <= 700), Trientine, 2-Piperazin-1-ylethylamine. 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]
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	< 1	Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
108-95-2	203-632-7	phenol	< 1	Muta. 2, H341 / Acute Tox. 3, H331 / Acute Tox. 3, H311 / Acute Tox. 3, H301 / STOT RE 2, H373 / Skin Corr. 1B, H314
140-31-8	205-411-0	2-piperazin-1-ylethylamine	< 0,5	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
65997-17-3	266-046-0	glass, oxide, chemicals	10 - 20	
112-24-3	203-950-6	trientine	< 1	Acute Tox. 4, H302; H312 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412

REACH

CAS No	Name	REACH registration number
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	01-2119456619-26
108-95-2	phenol	01-2119471329-32
140-31-8	2-piperazin-1-ylethylamine	01-2119471486-30
112-24-3	trientine	not subject to registration

! 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.

Repair Stick Titanium**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 with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Do not induce vomiting.
Call for a doctor immediately.

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 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 (NO_x)
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.

Do not inhale explosion and/or combustion gases.

! Additional information

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.
Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

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

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

Take up mechanically and send for disposal.

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

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs.

At work do not eat, drink and smoke.

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 animal feedstuffs.

Do not store together with food.

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.

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
108-95-02	phenol	8 hours		2	EH40/2005
65997-15-1	Portland cement: total inhalable dust	8 hours	10		EH40/2005
14807-96-6	Talc respirable dust	8 hours	1		EH40/2005
14807-96-6	Talk astbestfaserfrei (CH)	MAK, 8 hours	2		Lungenfib, Lunge, Methode: OSHA



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 05.08.2019

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Repair Stick Titanium**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
108-95-2	phenol	8 hours	8	2	skin
		Short-term	16	4	

DNEL-/PNEC-values**DNEL worker**

CAS No	Substance name	Value	Code	Remark
108-95-2	phenol	16 mg/m3	DNEL acute inhalative (local)	
		1,23 mg/m3	DNEL long-term dermal (systemic)	
		8 mg/m3	DNEL long-term inhalative (systemic)	
112-24-3	trientine	1 mg/m3	DNEL long-term inhalative (systemic)	
		20 mg/kg	DNEL short-term oral (acute)	
		5380 mg/m3	DNEL acute inhalative (systemic)	
		0,57 mg/kg bw/day	DNEL long-term dermal (systemic)	
		8 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		1 mg/kg	DNEL acute dermal, short-term (local)	
		0,028 mg/kg bw/day	DNEL long-term dermal (local)	
		0,41 mg/kg bw/day	DNEL long-term oral (repeated)	
140-31-8	2-piperazin-1-ylethylamine	20 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		21,4 mg/m3	DNEL acute inhalative (systemic)	
		0,04 mg/cm2	DNEL acute dermal, short-term (local)	
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)	

PNEC

CAS No	Substance name	Value	Code	Remark
108-95-2	phenol	0,031 mg/l	PNEC aquatic, intermittent release	
		0,0077 mg/l	PNEC aquatic, freshwater	
		2,1 mg/l	PNEC sewage treatment plant (STP)	
		0,0915 mg/kg	PNEC sediment, freshwater	
		0,00915 mg/kg	PNEC sediment, marine water	
		0,00077 mg/l	PNEC aquatic, marine water	
112-24-3	trientine	4,25 mg/l	PNEC sewage treatment plant (STP)	

**Repair Stick Titanium****DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		95,9 mg/kg	PNEC sediment, freshwater	
		0,19 mg/l	PNEC aquatic, freshwater	
		19,2 mg/kg	PNEC sediment, marine water	
		0,038 mg/l	PNEC aquatic, marine water	
140-31-8	2-piperazin-1-ylethylamine	250 mg/l	PNEC sewage treatment plant (STP)	
		21,5 mg/kg	PNEC sediment, marine water	
		215 mg/kg	PNEC sediment, freshwater	
		0,0058 mg/l	PNEC aquatic, marine water	
		0,058 mg/l	PNEC aquatic, freshwater	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	0,018 mg/l	PNEC aquatic, intermittent release	
		0,0996 mg/kg	PNEC sediment, marine water	
		10 mg/l	PNEC sewage treatment plant (STP)	
		0,0006 mg/l	PNEC aquatic, marine water	
		0,006 mg/l	PNEC aquatic, freshwater	
		11 mg/kg	PNEC Secondary Poisoning	
		0,996 mg/kg	PNEC sediment, freshwater	

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls**Respiratory protection**

Not required

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 physical and chemical properties****Appearance**

pasty

Colour

brown

Odour

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 applicable				
Ignition temperature	> 200 °C				estimate
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	< 500 Pa	20 °C			
Relative density	1,9 g/cm ³				
Vapour density	not applicable				
Solubility in water					insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	> 200 °C				
Viscosity dynamic	not applicable				
Viscosity kinematic	not applicable				
Oxidising properties					
No information available.					



Explosive properties
no

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
Reactions with acids.
Reactions with amines.

10.4. Conditions to avoid
Keep away from heat.

10.5. Incompatible materials
! Substances to avoid
Amines
Acid
oxidising agent

10.6. Hazardous decomposition products
Carbon monoxide and carbon dioxide.
Nitrous oxides (NOx)
Toxic gases/vapours

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	11111 mg/kg			ATE
LD50 acute dermal	41749 mg/kg			ATE
LC50 acute inhalation	333 mg/l ()			ATE
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	low irritant - no labeling duty			
Skin sensitization	non-sensitizing			

**Repair Stick Titanium****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.

Experiences made from practice

Persons suffering from hypersensitivity (1 ppm) showed sensitization.

Frequent contact specially if dried out may cause skin and eye irritations.

! Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product has not been tested. The information is derived from the properties of the individual components.

! SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicological effects**

Value	Species	Method	Validation
Fish LC50 2 mg/l (96 h)	Oncorhynchus mykiss		CAS: 25068-38-6
Daphnia NOEC 0,3 mg/l (21 d)	Daphnia magna		CAS: 25068-38-6
Algae EC50 11 mg/l (72 h)	Green algae		CAS: 25068-38-6
Bacteria EC50 800 mg/l	activated sludge		CAS: 112-24-3

12.2. Persistence and degradability

Elimination rate	Method of analysis	Method	Validation
Biological degradability 12 % (28 d)			not degradable
CAS: 25068-38-6			

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

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.

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

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.



! SECTION 13: Disposal considerations**13.1. Waste treatment methods****! Recommendations for the product**

Remove in accordance with local official regulations.

Recommendations for packaging

Untampered 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	-	-	-

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.

For industrial use only.

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: 1.4

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H302;	-?-
H312	Toxic in contact with skin.
H312	Harmful in contact with skin.
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.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects (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).
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.