



**! 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.

**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.

**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.

**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.

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**! 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<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

**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.

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**! 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)

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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)	

**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
<b>pH value</b>	not applicable				
<b>boiling point</b>	> 35 °C		ca. 101 kPa		
<b>melting point</b>	not applicable				
<b>Flash point</b>	> 100 °C				
<b>Vapourisation rate</b>	not applicable				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	> 200 °C				estimate
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	< 500 Pa	20 °C			
<b>Relative density</b>	1,9 g/cm <sup>3</sup>				
<b>Vapour density</b>	not applicable				
<b>Solubility in water</b>					insoluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	> 200 °C				
<b>Viscosity dynamic</b>	not applicable				
<b>Viscosity kinematic</b>	not applicable				
<b>Oxidising properties</b>					
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 (NO<sub>x</sub>)

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



**Repair Stick Titanium****Subacute Toxicity - Carcinogenicity**

Value	Species	Method	Validation
<b>Mutagenicity</b>			No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>			No indications of toxic effects were observed in reproduction studies in animals.
<b>Carcinogenicity</b>			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
<b>Fish</b>	LC50 2 mg/l (96 h)	Oncorhynchus mykiss	CAS: 25068-38-6
<b>Daphnia</b>	NOEC 0,3 mg/l (21 d)	Daphnia magna	CAS: 25068-38-6
<b>Algae</b>	EC50 11 mg/l (72 h)	Green algae	CAS: 25068-38-6
<b>Bacteria</b>	EC50 800 mg/l	activated sludge	CAS: 112-24-3

**12.2. Persistence and degradability**

Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	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.



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**! 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.

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**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.

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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 0 %

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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**! 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;	-?-
<b>H312</b>	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.