

No. 1907/2006 (REACH)
Printed 05.08.2019

revision 23.08.2018 (GB) Version 8.7

WEICON ST Hardener

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

1.1. Product identifier

Name of product WEICON ST Hardener Code-Nr. 104102

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

2-Component Epoxy Resin - Hardener Component

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

Hazard Statements Classification procedure

categories

Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 2 H411

Hazard Statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic 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]







GHS05

GHS07

GHS09

Signal word

Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out of reach of children.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-v

ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment. P280 Wear protective gloves/eye protection.

P301 + P330 + IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P331

P303 + P361 + IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

P353 water/shower.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position P304 + P341

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.

Immediately call a POISON CENTER or doctor/physician. P310 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. P337 + P313

Collect spillage. P391 P405 Store locked up.

P501 Dispose of contents/container to hazardous or special waste collection point.

! Hazardous ingredients for labeling

2,4,6-tris(dimethylaminomethyl)phenol, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, HEPA, pentacthylenehexamine, tetraethylenepentamine

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

Hardener for a 2-component epoxy adhesive (formulated polyaminoamide containing 3-aminopropyldimethylamine).



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Hazardous i				
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
90-72-2	202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	1 - 25	Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
68131-73-7	268-626-9	HEPA	1 - 25	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
112-57-2	203-986-2	tetraethylenepentamine	1 - 25	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
4067-16-7	223-775-9	pentacthylenehexamine	1 - 25	Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
157707-73-8	500-382-3	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear, tetraethylenepentamine and triethylenetetramine	1 - 25	Eye Dam. 1, H318
68082-29-1	500-191-5	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	1 - 25	Eye Dam. 1, H318 / Aquatic Chronic 2, H411 Skin Irrit. 2, H315 / Skin Sens. 1, H317
REACH				
CAS No	Name			REACH registration number
90-72-2	2,4,6-tris(dim	ethylaminomethyl)phenol		01-2119560597-27
68131-73-7	HEPA			01-2119485823-28
112-57-2	tetraethylenepentamine		01-2119487290-37	
4067-16-7	pentacthylenehexamine		01-2119485826-22	
157707-73-8	•	C18-unsatd., dimers, oligomeric reaction products w C18-unsatd., branched and linear, tetraethylenepent ramine	•	Polymer
68082-29-1	Fatty acids, 0	C18-unsatd., dimers, oligomeric reaction products wethylenetetramine	ith tall-oil fatty	01-2119972320-44

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

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.

Seek medical treatment immediately.

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.

Give water to drink in small sips.



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

vomiting

Respiratory complaints Allergic symptoms Skin burns

Physician's information / possible dangers

Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foan

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.

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.

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.

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

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.

Do not discharge into the subsoil/soil.



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6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Ventilate area concerned

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

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.

Open and handle container with care!

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

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 with acids or alkalies.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

Do not store together with metals.

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from heat and direct solar radiation.

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

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
4067-16-7	pentacthylenehexamine	8550 mg/m3	DNEL long-term inhalative	
			(systemic)	



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DNEL-/PNEC-values (continued)				
CAS No	Substance name	Value	Code	Remark
		0,044 mg/ cm2	DNEL acute dermal, short-term (local)	
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	1,1 mg/kg bw/day	DNEL acute dermal, short-term (local)	
		3,9 mg/m3	DNEL acute 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
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	0,2 mg/l	PNEC sewage treatment plant (STP)	
		0,084 mg/l	PNEC aquatic, freshwater	
		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

If ventilation insufficient, wear respiratory protection.

Selection of the appropriate filter type depends on the quantity and chemicals handled at the workplace. Contact supplier of respiratory protective equipment or more information about filter properties.

Short term: filter apparatus, combination filter K-P2

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

Appearance
pastyColour
light greyOdour
unpleasant

Odour threshold



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Method

Remark

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at

not determined

Important health, safety and environmental information

Value

not determined pH value not determined boiling point melting point not determined > 100 °C Flash point Vapourisation rate not determined not determined Flammable (solid) Flammability (gas) not determined not determined Ignition temperature The product is not Self ignition temperature self-igniting. Lower explosion limit not determined not determined **Upper explosion limit** Vapour pressure not determined ca. 1,55 - 1, 20 °C Relative density 65 g/cm3 not determined Vapour density Solubility in water No or low immiscibility not determined Solubility/other

Temperature

Decomposition temperature

not determined

not determined

200000 mPa*s 25 °C **Viscosity**

Oxidising properties No information available.

Partition coefficient noctanol/water (log P O/W)

Explosive properties

9.2. Other information

No information available.



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! 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, alkalies and oxidising agents.

Reactions with Metals.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials Substances to avoid

Alkali (lye)

Acid

Oxidising agent

Metal, Metal-Salts

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	1200 mg/kg	rat		CAS: 90-72-2
LD50 acute dermal	1280 mg/kg	rat		CAS: 90-72-2
LC50 acute inhalation	320 mg/kg ()	mouse		CAS: 112-57-2
Skin irritation	corrosive			
Eye irritation	corrosive			
Skin sensitization	sensitizing	Guinea pig		
Subacute Toxicity - 0	Carcinogenicity			
	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.



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	Value	Species	Method	Validation
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

Corrosive effect on skin and mucous membrane.

Sensitization through skin contact possible.

Causes corrosions.

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 7,07 mg/l (96 h)	Fish		CAS: 68082-29-1
Daphnia	EC50 17,5 mg/l (48 h)	Daphnia magna		CAS: 4067-16-7
Algae	EC50 0,7 mg/l (72 h)	Green algae		CAS: 4067-16-7

12.2. Persistence and degradability

No information available.

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

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 the ground water or aquatic 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.

Dispose of as hazardous waste.

Recommendations for packaging

Dispose of according to the local waste regulations.

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	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic amines, Dimer fatty acid, Polyamidoamine resins)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic amines, Dimer fatty acid, Polyamidoamine resins)	Polyamines, liquid, corrosive, n.o.s. (Aliphatic amines, Dimer fatty acid, Polyamidoamine resins)
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

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

Land and inland navigation transport ADR/RID

Hazard label(s) 8 tunnel restriction code E Classification code C7

! 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: 8.6

H302	Harmful if swallowed.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.