



**SAFETY DATA SHEET**  
STAHLFIX PE21 400MLPURE EPOXY

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Compilation date: 03/07/2014

Revision No: 1

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** STAHLFIX PE21 400MLPURE EPOXY

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Sogivaswiss SA  
Lavasson 8 , 1196 Gland  
**Tel:** 004122 3640717  
**Email:** [info@sogivaswiss.com](mailto:info@sogivaswiss.com)

**1.4. Emergency telephone number**

**Emergency tel:** 004122 3640717

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CHIP:** Xn: R20/21/22; C: R34; Sens.: R43; N: R51/53; Xn: R68

**Classification under CLP:** Aquatic Chronic 2: H411; Muta. 2: H341; Skin Corr. 1B: H314; Skin Sens. 1: H317

**Most important adverse effects:** Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of irreversible effects.

**2.2. Label elements**

**Label elements under CLP:**

**Hazard statements:** H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H341: Suspected of causing genetic defects.  
H411: Toxic to aquatic life with long lasting effects.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion  
GHS07: Exclamation mark  
GHS08: Health hazard  
GHS09: Environmental



**Precautionary statements:** P202: Do not handle until all safety precautions have been read and understood.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

[cont...]

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P264: Wash skin thoroughly after handling.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

**Label elements under CHIP:**

**Hazard symbols:** Dangerous for the environment.

Corrosive.



**Risk phrases:** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68: Possible risk of irreversible effects.

**Safety phrases:** S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT substance.

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients:**

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

EINECS	CAS	CHIP Classification	CLP Classification	Percent
500-033-5	25068-38-6	Xi: R36/38; Sens.: R43; N: R51/53	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	30-40%

[cont...]

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**BISPHENOL-F EPICHLORHYDRIN RESIN: MW<700**

-	9003-36-5	Xi: R38; Sens.: R43; N: R51/53	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; Aquatic Chronic 2: H411	10-20%
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**1,6-HEXANDIOLDIGLYCIDYLETHER**

240-260-4	16096-31-4	Xi: R36/38; Sens.: R43; -: R52/53	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317	10-20%
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**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

220-666-8	2855-13-2	Xn: R21/22; C: R34; Sens.: R43; -: R52/53	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	3-10%
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**BENZYL ALCOHOL**

202-859-9	100-51-6	Xn: R20/22	Acute Tox. 4: H332; Acute Tox. 4: H302	1-3%
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**2,2'-IMINODIETHYLAMINE**

203-865-4	111-40-0	Xn: R21/22; C: R34; Sens.: R43	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317	1-3%
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**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

202-013-9	90-72-2	Xn: R22; Xi: R36/38	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-3%
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**PHENOL**

203-632-7	108-95-2	T: R23/24/25; C: R34; Xn: R48/20/21/22; Xn: R68	Muta. 2: H341; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT RE 2: H373; Skin Corr. 1B: H314	1-3%
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**1,3-BENZENEDIMETHANAMINE**

216-032-5	1477-55-0	C: R34; Xn: R20/22; Sens.: R43; -: R52/53	Skin Corr. 1B: H314; Aquatic Chronic 3: H412; Acute Tox. 4: H302; Skin Sens. 1: H317; Acute Tox. 3: H331	1-3%
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**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

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

**Skin contact:** Corrosive. May cause sensitization by skin contact.

**Eye contact:** Corrosive.

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**Ingestion:** Harmful if swallowed.

**Inhalation:** Harmful by inhalation.

**Delayed / immediate effects:** No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Water spray. Do not use water jet.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Pick up mechanically. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 13 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Ensure there is sufficient ventilation of the area.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in cool, well ventilated area.

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** Building and construction work (SU19).

[cont...]

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**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:**

**2,2'-IMINODIETHYLAMINE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	4.3 mg/m <sup>3</sup>	-	-	-

**PHENOL**

UK	2 ppm	4 ppm	-	-
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**8.1. DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Breathing protection is required in inadequately ventilated places. Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** Nitrile gloves. Recommended thickness of material >0.4 mm Breakthrough time of the glove material < 1 hour.

**Eye protection:** Tightly fitting safety goggles.

**Skin protection:** Protective clothing.

**Environmental:** No special requirement.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Paste

**Colour:** Various

**Odour:** Perceptible odour

**Solubility in water:** Insoluble

**Relative density:** 1.44

**9.2. Other information**

**Other information:** Solid suspension - classified as non-flammable according to results from Test N.1 test method for readily combustible solids.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

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**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**10.4. Conditions to avoid**

**Conditions to avoid:** No specific recommendations.

**10.5. Incompatible materials**

**Materials to avoid:** Oxidising agents. Acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** No data available.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}**

ORL	MUS	LD50	15600	mg/kg
ORL	RAT	LD50	11400	mg/kg
SKN	RBT	LD50	>20	ml/kg

**BENZYL ALCOHOL**

IVN	RAT	LD50	53	mg/kg
ORL	MUS	LD50	1360	mg/kg
ORL	RAT	LD50	1230	mg/kg

**2,2'-IMINODIETHYLAMINE**

IPR	RAT	LD50	74	mg/kg
ORL	MUS	LD50	970	mg/kg
ORL	RAT	LD50	970	mg/kg

**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

ORL	RAT	LD50	1200	mg/kg
SKN	RAT	LD50	1280	mg/kg

**PHENOL**

ORL	MUS	LD50	270	mg/kg
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ORL	RAT	LD50	317	mg/kg
SCU	RAT	LD50	460	mg/kg

**Relevant effects for mixture:**

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** Corrosive. May cause sensitization by skin contact.

**Eye contact:** Corrosive.

**Ingestion:** Harmful if swallowed.

**Inhalation:** Harmful by inhalation.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** Bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Insoluble in water. Heavier than water.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT substance.

**12.6. Other adverse effects**

**Other adverse effects:** Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

[cont...]

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**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN3259

**14.2. UN proper shipping name**

**Shipping name:** AMINES, SOLID, CORROSIVE, N.O.S.  
(BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}; BISPHENOL-F  
EPICHLORHYDRIN RESIN: MW<700; 1,6-HEXANDIOLDIGLYCIDYLETHER)

**14.3. Transport hazard class(es)**

**Transport class:** 8

**14.4. Packing group**

**Packing group:** II

**14.5. Environmental hazards**

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

**14.6. Special precautions for user**

**Tunnel code:** E

**Transport category:** 2

**Section 15: Regulatory information**

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

**Specific regulations:** Not applicable.

**15.2. Chemical Safety Assessment**

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:** H301: Toxic if swallowed.  
H302: Harmful if swallowed.  
H311: 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.

[cont...]



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H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H332: Harmful 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.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R20/22: Harmful by inhalation and if swallowed.

R21/22: Harmful in contact with skin and if swallowed.

R22: Harmful if swallowed.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R43: May cause sensitisation by skin contact.

R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68: Possible risk of irreversible effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.