

SAFETY DATA SHEET  
HENKEL 9340 EPOXY - HARDENER

Page: 1  
Compilation date: 08/09/2015  
Revision date: 20/08/2020  
Revision No: 2

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

1.1. Product identifier

Product name: HENKEL 9340 EPOXY - HARDENER  
Synonyms: EHC: 28611000000263

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

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Ellsworth Adhesives (Europe) Ltd  
2 Langlands Avenue  
Kelvin South Business Park  
East Kilbride, Glasgow  
G75 0YG  
United Kingdom  
Tel: +44(0) 1355 231122  
Fax: +44(0) 1355 235266  
Email: [eusds@ellsworth.com](mailto:eusds@ellsworth.com)

Supplied by:  
**Sil-Mid Limited**  
Roman Park, Roman Way  
Coleshill, West Midlands  
B46 1HG. UK  
T: 01675 432850  
E: [info@silmid.com](mailto:info@silmid.com)

**Emergency Telephone No.** +44 (0)1675 432850  
(Monday to Friday, 08:00 – 17:30 – GMT)

1.4. Emergency telephone number

Emergency tel: +44(0) 1355 231122  
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Sens. 1: H317; Aquatic Chronic 2: H411

Most important adverse effects: Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: May cause an allergic skin reaction.  
H411: Toxic to aquatic life with long lasting effects.

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 2

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



Signal words: Danger

Precautionary statements: P261: Avoid breathing spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor.  
P273: Avoid release to the environment.

Haz. ingredients (label): TRIETHYLENETETRAMINE; 2,2'-IMINODI(ETHYLAMINE); N-METHYLIMIDAZOLE

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
500-191-5	68082-29-1	-	Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Chronic 2: H411	30-50%

TRIETHYLENETETRAMINE - REACH registered number(s): 01-2119487919-13-XXXX

203-950-6	112-24-3	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+H312; Skin Sens. 1: H317; Aquatic Chronic 3: H412	1-10%
-----------	----------	---	---	-------

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 3

**N-METHYLIMIDAZOLE**

210-484-7	616-47-7	-	Skin Corr. 1B: H314; Acute Tox. 4: H302; Acute Tox. 3: H311; Met. Corr. 1: H290	1-10%
-----------	----------	---	--	-------

**DIETHYLENETRIAMINE - REACH registered number(s): 01-2119473793-27-XXXX**

203-865-4	111-40-0	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+H312; Acute Tox. 2: H330; Skin Sens. 1: H317; STOT SE 3: H335	1-10%
-----------	----------	---	---	-------

Contains: May contain traces of crystalline silica (quartz).

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Immediately remove contact lenses if present. Transfer to hospital for specialist examination.

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

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If conscious, ensure the casualty sits or lies down. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

**Skin contact:** Severe burns may occur. Blistering may occur. May cause sensitisation in susceptible individuals.

**Eye contact:** Corneal burns may occur. May cause permanent damage. There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**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:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 4

**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: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.  
If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

**6.2. Environmental precautions**

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Absorb into dry earth or sand. 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 8 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

Handling requirements: Ensure there is exhaust ventilation of the area. Avoid direct contact with the substance.  
Avoid the formation or spread of mists in the air. Do not handle in a confined space.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

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

Specific end use(s): PC1: Adhesives, sealants.

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

**8.1. Control parameters**

Hazardous ingredients:

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

**DIETHYLENETRIAMINE**

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>	-	-	-

**DNEL/PNEC Values**

Hazardous ingredients:

**DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	3.9 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	1.1 mg/kg	Workers	Systemic
PNEC	Fresh water	4.34 ug/L	-	-
PNEC	Marine water	434 ng/L	-	-
PNEC	Microorganisms in sewage treatment	3.84 mg/L	-	-
PNEC	Fresh water sediments	434 mg/kg	-	-
PNEC	Marine sediments	43.4 mg/kg	-	-
PNEC	Soil (agricultural)	86.78 mg/kg	-	-

**TRIETHYLENETETRAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	5380 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	28 ug/kg	Workers	Local
DNEL	Dermal	57 ug/kg	Workers	Systemic
PNEC	Fresh water	190 ug/L	-	-
PNEC	Marine water	38 ug/L	-	-
PNEC	Microorganisms in sewage treatment	4.25 mg/L	-	-
PNEC	Fresh water sediments	95.9 mg/kg	-	-
PNEC	Marine sediments	19.2 mg/kg	-	-
PNEC	Soil (agricultural)	19.1 mg/kg	-	-

**N-METHYLIMIDAZOLE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1.47 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	0.42 mg/kg	Workers	Systemic
PNEC	Fresh water	100 ug/L	-	-

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 6

DNEL	Inhalation	1.47 mg/m <sup>3</sup>	Workers	Systemic
PNEC	Dermal	420 ug/kg	Workers	Systemic
PNEC	Fresh water	100 ug/L	-	-
PNEC	Marine water	10 ug/L	-	-
PNEC	Microorganisms in sewage treatment	590 mg/L	-	-
PNEC	Fresh water sediments	6.95 mg/kg	-	-
PNEC	Marine sediments	695 ug/kg	-	-
PNEC	Soil (agricultural)	1.26 mg/kg	-	-

**DIETHYLENETRIAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	15.4 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	92.1 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	0.87 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation	2.6 mg/m <sup>3</sup>	Workers	Local
DNEL	Dermal	11.4 mg/kg	Workers	Systemic
DNEL	Dermal	1.1 mg/cm <sup>2</sup>	Workers	Local
PNEC	Fresh water	560 ug/L	-	-
PNEC	Marine water	56 ug/L	-	-
PNEC	Microorganisms in sewage treatment	6 mg/L	-	-
PNEC	Fresh water sediments	1072 mg/kg	-	-
PNEC	Marine sediments	107.2 mg/kg	-	-
PNEC	Soil (agricultural)	7.97 mg/kg	-	-

**8.2. Exposure controls**

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory protection should be worn when there is inadequate ventilation.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation.

**Section 9: Physical and chemical properties**

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

State: Liquid

Colour: Various

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 7

Odour: Amine  
Solubility in water: Not miscible  
Viscosity: Viscous  
Boiling point/range°C: 206  
Vapour pressure: 1 mmHg  
VOC g/l: <0.5  
Flash point°C: 102  
Relative density: 1.350

**9.2. Other information**

Other information: No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

Reactivity: Stable under recommended transport or storage conditions.

**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: Heat.

**10.5. Incompatible materials**

Materials to avoid: Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

Hazardous ingredients:

**DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE**

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

**TRIETHYLENETETRAMINE**

DERMAL	RBT	LD50	1465	mg/kg
ORAL	RAT	LD50	>300	mg/kg

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 8

**N-METHYLIMIDAZOLE**

DERMAL	RBT	LD50	>400	mg/kg
ORAL	RAT	LD50	1144	mg/kg

**DIETHYLENETRIAMINE**

DERMAL	RBT	LD50	1045	mg/kg
DUST/MIST	RAT	4H LC50	0.07	mg/l
ORAL	RAT	LD50	1553	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Severe burns may occur. Blistering may occur. May cause sensitisation in susceptible individuals.

Eye contact: Corneal burns may occur. May cause permanent damage. There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

**DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE**

Daphnia magna	48H EC50	7.07	mg/l
Scenedesmus Subspicatus	72H ErC50	4.34	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	7.07	mg/l

**TRIETHYLENETETRAMINE**

ALGAE	72H ErC50	>10	mg/l
-------	-----------	-----	------

[cont...]



**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 9

Daphnia magna	48H EC50	33.9	mg/l
FISH	96H LC50	>100	mg/l

**N-METHYLIMIDAZOLE**

Daphnia magna	48H EC50	267	mg/l
FISH	96H LC50	>100	mg/l
Scenedesmus Subspicatus	72H ErC50	180.7	mg/l

**DIETHYLENETRIAMINE**

Daphnia magna	48H EC50	16	mg/l
FISH	96H LC50	430	µg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	1164	mg/l

**12.2. Persistence and degradability**

Persistence and degradability: Not readily biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulative potential: No data available.

**12.4. Mobility in soil**

Mobility: Non-volatile. Insoluble in water.

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

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

**12.6. Other adverse effects**

Other adverse effects: Harmful to aquatic organisms.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

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

Waste code number: 08 04 09

Disposal of packaging: Arrange for collection by specialised disposal company.

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: UN2735

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 10

**14.2. UN proper shipping name**

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENETETRAMINE; DIETHYLENETRIAMINE)

**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**

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

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

Phrases used in s.2 and s.3: H290: May be corrosive to metals.

H302: Harmful if swallowed.

H302+H312: Harmful if swallowed or in contact with skin

H311: Toxic 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.

H330: Fatal if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

[cont...]

**SAFETY DATA SHEET**  
HENKEL 9340 EPOXY - HARDENER

Page: 11

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.