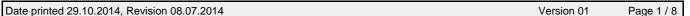
Article number 170222

HAUPA GmbH & Co. KG





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

1.1 Product identifier

Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g

Lösungen, die überzeugen

(Part A)

Article number 170222

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company HAUPA GmbH & Co. KG

Königstraße 165-169

42853 Remscheid / GERMANY Phone + 49 (0) 21 91 84 18 370 Fax + 49 (0) 21 91 84 18 840 Homepage www.haupa.com

Address enquiries to

Technical informationulrich.koenig@haupa.comSafety Data Sheetsdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2: H319 Causes serious eye irritation.

Skin Irrit. 2: H315 Causes skin irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction.

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Xi, Irritant - R 36/38: Irritating to eyes and skin.

Sensitizing. - R 43: May cause sensitisation by skin contact.

N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-

term adverse effects in the aquatic environment.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms

Signal word WARNING

Contains: Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular

weight ≤ 700)

Hazard statements H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container to in accordance with local/regional/national/international

Special labelling EUH205 Contains epoxy constituents. May produce an allergic reaction.

Other hazards

Human health dangers Irritant gases/vapours.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
80 - < 100	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
	CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
	EEC: Xi-N, R 36/38-43-51/53

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

Skin contact

Description of first aid measures

General information Change soaked clothing immediately.

Inhalation Remove the victim into fresh air and keep him calm. In the event of symptoms seek for medical treatment.

When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed 4.3

Treat symptomatically.

Forward this sheet to the doctor.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective clothing.

6.2 Environmental precautions

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

In case the product spills into drains/surface waters/groundwater, immediately inform the

authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Avoid spilling or spraying in enclosed areas.

Keep away from all sources of ignition - Refrain from smoking.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Use barrier skin cream.

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

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with food. Do not store together with acids.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

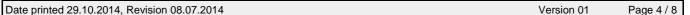
7.3 Specific end use(s)

See product use, SECTION 1.2

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HAUPA GmbH & Co. KG

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SECTION 8: Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored (GB)

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection safety glasses

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information. In full contact:

Butyl rubber, >480 min (EN 374).

In splash contact

butyl rubber, > 120 min (EN 374)

Skin protection light protective clothing

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective

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supplier.

Do not breathe vapour/spray. Avoid contact with eyes and skin.

Respiratory protection Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P1.

Thermal hazards

Delimitation and monitoring of the

environmental exposition

See SECTION 6+7.

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form viscous

Color colourless light yellow

ingrit you

Odor mild

Odour threshold not determined not determined pH-value [1%] not determined Boiling point [°C] not determined

Flash point [°C] > 250

Flammability [°C] not determined Lower explosion limit not determined Upper explosion limit not determined **Oxidizing properties** not determined Vapour pressure/gas pressure [kPa] not determined Density [g/ml] 1,0 - 1,2 Bulk density [kg/m³] not applicable Solubility in water insoluble Partition coefficient [n-octanol/water] not determined

Viscosity 8000 - 16000 mPas (25°C)

Relative vapour density determined

in air

not determined

Evaporation speed not determined

Melting point [°C] not determined

Autoignition temperature [°C] not determined

Decomposition temperature [°C] > 300



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9.2 Other information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with amines.

Reactions with acids.

Reactions with alkalies (lyes).

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LD50, dermal, Rabbit: > 2000 mg/kg (Lit.).
	LD50, oral, Rat: 13600 mg/kg (Lit.).
	LC50, inhalative, > 100 mg/l (Lit.).

Serious eye damage/irritation not determined Skin corrosion/irritation not determined Respiratory or skin sensitisation not determined Specific target organ toxicity not determined single exposure Specific target organ toxicity not determined repeated exposure Mutagenicity not determined Reproduction toxicity not determined not determined Carcinogenicity General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g (Part A)

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HAUPA GmbH & Co. KG





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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
80 - < 100	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-
	38-6
	LC50, (96h), Leuciscus idus: 3,6 mg/l (Lit.).
	EC50, (48h), Daphnia magna: 2,8 mg/l (Lit.).
	EC50, (96h), Algae: 220 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecotoxicological data are not available.

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended) 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g (Part A)

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14.2 UN proper shipping name

Transport by land according to

ADR/RID

- Classification Code

- Label

M6

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III - Classification Code

- Label

MARINE POLLUTANT

Marine transport in accordance with **IMDG**

- EMS

F-A, S-F

- Label

5 I

- IMDG LQ

Air transport in accordance with IATA UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III

- Label

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); **EEC-REGULATIONS**

1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013). NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

CHIP 3/ CHIP 4

- Observe employment restrictions

for people

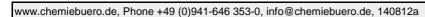
Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

- VOC (1999/13/CE) not applicable

15.2 Chemical safety assessment

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





GB

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Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g (Part A)

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SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 36/38: Irritating to eyes and skin.

R 43: May cause sensitisation by skin contact.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

16.2 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Customs Tariff not determined

Classification procedure Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

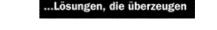
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position none

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

1.1 Product identifier

Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g

(Part B)

Article number 170222

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company HAUPA GmbH & Co. KG

Königstraße 165-169

42853 Remscheid / GERMANY Phone + 49 (0) 21 91 84 18 370 Fax + 49 (0) 21 91 84 18 840 Homepage www.haupa.com

Address enquiries to

Technical informationulrich.koenig@haupa.comSafety Data Sheetsdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.

Eye Dam. 1: H318 Causes serious eye damage. Skin Sens. 1: H317 May cause an allergic skin reaction.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

C, Corrosive - R 34: Causes burns.

Sensitizing. - R 43: May cause sensitisation by skin contact.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms





Signal word DANGER

Contains: Triethylenetetramine

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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/shower.

P310 Immediately call a POISON CENTER/doctor/...

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.



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2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards none

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
10 - 15	Triethylenetetramine
	CAS: 112-24-3, EINECS/ELINCS: 203-950-6, EU-INDEX: 612-059-00-5
	GHS/CLP: Aquatic Chronic 3: H412 - Skin Sens. 1: H317 - Skin Corr. 1B: H314 - Acute Tox. 4: H312
	EEC: C, R 21-34-43-52/53
1 - 5	2,4,6-Tris(dimethylaminomethyl)phenol
	CAS: 90-72-2, EINECS/ELINCS: 202-013-9, EU-INDEX: 603-069-00-0
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315
	EEC: Xn, R 22-36/38
1 - 20	3-(Trimethoxysilyl)propylamine
	CAS: 13822-56-5, EINECS/ELINCS: 237-511-5
	GHS/CLP: Eye Irrit. 2: H319
	EEC: Xi, R 36

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek for medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

IngestionSupply with medical care.
Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be

considered.

Extinguishing media that must not

be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

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5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

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

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with food.

Do not store together with oxidizing agents.

Do not store together with acids.

Keep container in a well-ventilated place.

Keep container tightly closed.

Keep in a cool place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g (Part B)

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HAUPA GmbH & Co. KG

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8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection Safety glasses.

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

In full contact:

Butyl rubber, >480 min (EN 374).

In splash contact

butyl rubber, > 120 min (EN 374)

Skin protection not applicable

Other Avoid contact with eyes and skin.

Do not inhale gases/vapours/aerosols.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective

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supplier.

Respiratory protection Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P1.

Thermal hazards

Delimitation and monitoring of the

environmental exposition

not applicable
See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form viscous Color light yellow Odor characteristic Odour threshold not determined pH-value not applicable pH-value [1%] not applicable Boiling point [°C] not determined Flash point [°C] not applicable Flammability [°C] not determined Lower explosion limit not determined Upper explosion limit not determined

Oxidizing properties no

Vapour pressure/gas pressure [kPa] not determined

Density [g/ml] 1,0 - 1,2

Bulk density [kg/m³] not applicable

Solubility in water virtually insoluble

Partition coefficient [n-octanol/water] not determined

Viscosity 8000 - 16000 cP (25°C)

Relative vapour density determined

in air

not determined

Evaporation speed not determined

Melting point [°C] not determined

Autoignition temperature [°C] not determined

Decomposition temperature [°C] > 150

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with amines.

Reactions with acids and strong oxidizing agents.

Reactions with alkalies (lyes).

10.4 Conditions to avoid

See SECTION 7.2. Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - 20	3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
	LD50, dermal, Rabbit: > 2000 mg/kg.
	LD50, oral, Rat: > 2000 mg/kg.
1 - 5	2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
	LD50, dermal, Rabbit: 1280 mg/kg (IUCLID).
	LD50, oral, Rat: 1916-2455 mg/kg (IUCLID).
10 - 15	Triethylenetetramine, CAS: 112-24-3
	LD50, dermal, Rabbit: 805 mg/kg.
	LD50, oral, Rat: 2500 mg/kg.

Serious eye damage/irritation not determined Skin corrosion/irritation not determined Respiratory or skin sensitisation not determined Specific target organ toxicity not determined single exposure Specific target organ toxicity not determined repeated exposure Mutagenicity not determined Reproduction toxicity

not determined Carcinogenicity not determined

General remarks May cause irritation of eye and skin.

Irritates the mucous membrane.

No classification on the basis of the calculation procedure of the preparation directive.



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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
1 - 20	3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
	LC50, (96h), fish: 1264 mg/l.
	EC50, (48h), Daphnia magna: 302 mg/l.
10 - 15	Triethylenetetramine, CAS: 112-24-3
	LC50, (96h), Poecilia reticulate: 570 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 31,1 mg/l (IUCLID).
	IC50, (72h), Algae: > 100 mg/l (IUCLID).
	LC0, (48h), Leuciscus idus: 200 mg/l (IUCLID).

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined

Biological degradability The product is biodegradable.

12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

Ecotoxicological data are not available.

No classification on the basis of the calculation procedure of the preparation directive.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended) 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

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14.2 UN proper shipping name

Transport by land according to ADR/RID

- Classification Code

C:7

- Label

1 I

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

UN 2259 Triethylentetramin, Lösung 8 II

UN 2259 Triethylentetramin, Lösung 8 II

- Classification Code

- Label



Marine transport in accordance with UN 2259 Triethylene Tetramine, solution 8 II

IMDG

F-A, S-B

- EMS - Label

- IMDG LQ

Air transport in accordance with IATA UN 2259 Triethylene Tetramine, solution 8 II

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach);

1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013). NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

CHIP 3/ CHIP 4

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

- VOC (1999/13/CE) not applicable

15.2 Chemical safety assessment

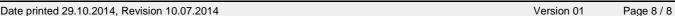
Chemical safety assessments for substances in this mixture were not carried out.

Lösungen, die überzeugen

Zweikomponenten Epoxydkleber "HUPepoxyd" Doppelspritze 25 g (Part B)

Article number 170222 HAUPA GmbH & Co. KG

42853 Remscheid



SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 21: Harmful in contact with skin.

R 34: Causes burns.

R 43: May cause sensitisation by skin contact.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

R 36: Irritating to eyes. R 22: Harmful if swallowed. R 36/38: Irritating to eyes and skin.

16.2 Hazard statements (SECTION 3)

H315 Causes skin irritation.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Customs Tariff not determined

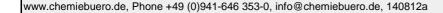
Classification procedure Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Modified position none

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Lösungen, die überzeugen

GB