

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SYNTECH POLIUREA SPRAY SOFT - COMP. B
Revision date : 17.10.2018
Print date : 17.10.2018

Version : 1.0.0

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

1.1 Product identifier

SYNTECH POLIUREA SPRAY SOFT - COMP. B

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

Preparation for building and construction: Polyurea elastomer system specific for waterproofing

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

AZICHEM Srl

Street : Via G. Gentile16/A

Postal code/city : 46044 Goito (MN)

Telephone : +390376604185/604365

Telefax : +39 0376 604398

Information contact : info@azichem.com

1.4 Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

Muta. 2 ; H341 - Germ cell mutagenicity : Category 2 ; Suspected of causing genetic defects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

POLYOXYPROPYLEN DIAMINE ; CAS No. : 9046-10-0

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE ; CAS No. : 64852-22-8

4,4'-METHYLENEBIS[N-SEC-BUTYLANILINE] ; CAS No. : 5285-60-9

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1,4-DIAZABICYCLOOCTANE ; CAS No. : 280-57-9

Hazard statements

H341 Suspected of causing genetic defects.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local regulation

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

POLYOXYPROPYLEN DIAMINE ; CAS No. : 9046-10-0

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Chronic 3 ; H412

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE ; CAS No. : 64852-22-8

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

DIETHYLMETHYLBENZENEDIAMINE ; REACH registration No. : 01-2119486805-25 ; EC No. : 270-877-4 ; CAS No. : 68479-98-1

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

4,4'-METHYLENEBIS[N-SEC-BUTYLANILINE] ; EC No. : 226-122-6 ; CAS No. : 5285-60-9

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Muta. 2 ; H341 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

1,4-DIAZABICYCLOOCTANE ; REACH registration No. : 01-2119980944-22 ; EC No. : 205-999-9 ; CAS No. : 280-57-9

Weight fraction : $\geq 3 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Sol. 1 ; H228 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

ETHANEDIOL ; REACH registration No. : 01-2119456816-28 ; EC No. : 203-473-3 ; CAS No. : 107-21-1

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302

Additional information

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

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4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In case of skin contact

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO2) Water mist

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide.

5.3 Advice for firefighters

Remove persons to safety.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing.

For non-emergency personnel

Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

6.4 Reference to other sections

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Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See section 8.

Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 8A

Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANEDIOL ; CAS No. : 107-21-1

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 10 ppm / 26 mg/m³

Peak limitation : 2(I)

Remark : H,Y

Version : 06.11.2015

Limit value type (country of origin) : STEL (EC)

Limit value : 40 ppm / 104 mg/m³

Remark : H

Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)

Limit value : 20 ppm / 52 mg/m³

Remark : H

Version : 08.06.2000

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (ETHANEDIOL ; CAS No. : 107-21-1)

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Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 7 mg/m³
Limit value type : DNEL Consumer (systemic) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 53 mg/kg
Limit value type : DNEL worker (local) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 35 mg/m³
Limit value type : DNEL worker (systemic) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 106 mg/kg

PNEC

Limit value type : PNEC aquatic, freshwater (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 10 mg/l
Limit value type : PNEC aquatic, intermittent release (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 10 mg/l
Limit value type : PNEC aquatic, marine water (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 1 mg/l
Limit value type : PNEC sediment, freshwater (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 20,9 mg/kg
Limit value type : PNEC Soil (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 1,53 mg/kg
Limit value type : PNEC Soil (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 1,53 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 10 mg/l

8.2 Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment



When using do not eat, drink, smoke, sniff.

Eye/face protection

Suitable eye protection

Safety glasses with side shields (EN 166).

Skin protection

Hand protection

Wear rubber gloves approved under standard EN374.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Full-/half-/quarter-face masks (DIN EN 136/140) Filter type: A

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Safety relevant basis data

Aspect		liquid
Colour		different colors
Odour		typical
Melting point/melting range :	(1013 hPa)	No data available
Vapour density	(air = 1)	Data not available
Initial boiling point and boiling range :	(1013 hPa)	No data available
Decomposition temperature :		No data available
Self flammability		Not selfigniting
Flash point :	>	60 °C
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Product is not explosive
Vapour pressure	(20 °C)	No data available
Density :	(20 °C)	0,998 g/cm ³
Density :	(23 °C)	No data available
Water solubility :	(20 °C)	Partially soluble
pH :		No data available
Log Pow	(20 °C)	not applicable
Viscosity :	(20 °C)	No data available
Viscosity :	(23 °C)	No data available
Odour threshold		Data not available
Evaporation rate		Data not available
Oxidizing properties		Data not available

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions

None particular

10.4 Conditions to avoid

None particular

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

Carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

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Parameter : LD50 (POLYOXYPROPYLEN DIAMINE ; CAS No. : 9046-10-0)
Exposure route : Oral
Species : Rat
Effective dose : 580 mg/kg
Parameter : LD50 (1,4-DIAZABICYCLOOCTANE ; CAS No. : 280-57-9)
Exposure route : Oral
Species : Rat
Effective dose : 700 mg/kg
Parameter : LD50 (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Oral
Species : Rat
Effective dose : = 7712 mg/kg

Acute dermal toxicity

Parameter : LD50 (POLYOXYPROPYLEN DIAMINE ; CAS No. : 9046-10-0)
Exposure route : Dermal
Species : Rabbit
Effective dose : 670 mg/kg
Parameter : LD50 (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Dermal
Species : Mouse
Effective dose : > 3500 mg/kg

Acute inhalation toxicity

Parameter : LC50 (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Inhalation
Species : Rat
Effective dose : > 2,5 mg/l
Exposure time : 6 h

Irritant and corrosive effects

Primary irritation to the skin

Corrosive

Irritation to eyes

Causes serious eye damage.

Irritation to respiratory tract

Not an irritant.

Sensitisation

In case of skin contact

not sensitising.

In case of inhalation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

There were no chronic effects or effects at low concentrations.

Subacute oral toxicity

Parameter : NOAEL(C) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Oral
Species : Rat
Effective dose : 150 mg/kg bw/day
Exposure time : 16 week

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Suspected of causing genetic defects.

SECTION 12: Ecological information

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Do not allow uncontrolled discharge of product into the environment.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (ETHANEDIOL ; CAS No. : 107-21-1)
Species : Pimephales promelas (fathead minnow)
Effective dose : 72860 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (ETHANEDIOL ; CAS No. : 107-21-1)
Species : Daphnia magna (Big water flea)
Effective dose : > 100 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : EC50 (ETHANEDIOL ; CAS No. : 107-21-1)
Species : Phaeodactylum tricornutum
Effective dose : 6500 - 13000 mg/l
Exposure time : 96 h

12.2 Persistence and degradability

No information available.

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

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Dispose according to legislation.

SECTION 14: Transport information

14.1 UN number

UN 2735

14.2 UN proper shipping name

Land transport (ADR/RID)

(POLYOXYPROPYLEN DIAMINE · DIETHYLMETHYLBENZENEDIAMINE)

Sea transport (IMDG)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLEN DIAMINE · DIETHYLMETHYLBENZENEDIAMINE)

Air transport (ICAO-TI / IATA-DGR)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLEN DIAMINE · DIETHYLMETHYLBENZENEDIAMINE)

14.3 Transport hazard class(es)

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Land transport (ADR/RID)

Class(es) : 8
Classification code : C7
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1
Hazard label(s) : 8 / N

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 5 I · E 1
Hazard label(s) : 8 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 1
Hazard label(s) : 8

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) 1907/2006 (REACH).
Regulation (EC) No 1272/2008 (CLP).
Regulation (EU) 2015/830 requirements for the compilation of safety data sheets.
Amendings, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008:
Commission Regulation (EC) No 790/2009 (I ATP). Commission Regulation (EU) No 286/2011 (II ATP). Commission Regulation (EU) No 618/2012 (III ATP). Commission Regulation (EU) No 487/2013 (IV ATP). Commission Regulation (EU) No 944/2013 (V ATP). Commission Regulation (EU) No 605/2014 (VI ATP). Commission Regulation (EU) No 1297/2014 (VII ATP). Commission Regulation (EU) No 2015/1221 (VIII ATP).

Other regulations (EU)

Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List

None

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
AwSV.:	Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV))
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD:	Theoretical Oxygen Demand

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

calculated.

16.5 Relevant H- and EUH-phrases (Number and full text)

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H228	Flammable solid.
H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to kidneys through prolonged or repeated exposure if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
