

Safety Data Sheet

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



Trade name : SYNTECH HAG ECO Comp. A
Revision date : 15.11.2019
Print date : 15.11.2019

Version : 1.0.0

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

1.1 Product identifier

SYNTECH HAG ECO Comp. A

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

Preparation for building and construction: Single-component, hydro-expanded, semi-rigid, solvent free, injectable polyurethane resin. Component A.

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]

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Carc. 2 ; H351 - Carcinogenicity : Category 2 ; Suspected of causing cancer.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Resp. Sens. 1 ; H334 - Sensitisation to the respiratory tract : Category 1 ; May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

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

Hazard pictograms



Health hazard (GHS08) · Exclamation mark (GHS07)

Signal word

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Danger

Hazard components for labelling

DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9
4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8
ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH ALPHA-HYDRO-OMEGA-HYDROXYPOLY(OXY(METHYL-1,2-ETHANEDIYL)) AND ALPHA,ALPHA',ALPHA"-1,2,3-PROPANETRIYLTRIS(OMEGA-HYDROXYPOLY(OXY(METHYL-1,2-ETHANEDIYL))) ; CAS No. : 61111-77-1
DIPHENYLMETHANE-2,4'-DIISOCYANATE ; CAS No. : 5873-54-1

Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local regulation

Special rules for supplemental label elements for certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9

Weight fraction : $\geq 40 - < 45$ %
Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Carc. 2 ; H351 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

4,4'-METHYLENEDIPHENYL DIISOCYANATE ; REACH registration No. : 01-2119457014-47 ; EC No. : 202-966-0 ; CAS No. : 101-68-8

Weight fraction : $\geq 25 - < 30$ %
Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Carc. 2 ; H351 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH ALPHA-HYDRO-OMEGA-HYDROXYPOLY(OXY(METHYL-1,2-ETHANEDIYL)) AND ALPHA,ALPHA',ALPHA"-1,2,3-PROPANETRIYLTRIS(OMEGA-HYDROXYPOLY(OXY(METHYL-1,2-ETHANEDIYL))) ; CAS No. : 61111-77-1

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Skin Sens. 1 ; H317

PROPYLENE CARBONATE ; REACH registration No. : 01-2119537232-48 ; EC No. : 203-572-1 ; CAS No. : 108-32-7

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

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DIMETHYL SUCCINATE ; EC No. : 203-419-9; CAS No. : 106-65-0

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

DIPHENYLMETHANE-2,4'-DIISOCYANATE ; REACH registration No. : 01-2119480143-45 ; EC No. : 227-534-9; CAS No. : 5873-54-1

Weight fraction : $\geq 0,5 - < 1$ %
Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Carc. 2 ; H351 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

Additional information

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

SECTION 4: First aid measures

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Irritation to eyes Primary irritation to the skin

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. Isocyanates Hydrocarbons

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.

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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

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 : 12

Storage class (TRGS 510) : 12

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

4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8

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

Parameter : E: inhalable fraction

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Limit value : 0,05 mg/m³
Peak limitation : 1/=2=(I)
Remark : Sa, Y
Version : 06.11.2015

DIMETHYL SUCCINATE ; CAS No. : 106-65-0

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1,2 ppm / 8 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 06.11.2015

DIPHENYLMETHANE-2,4'-DIISOCYANATE ; CAS No. : 5873-54-1

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 0,05 mg/m³
Peak limitation : 1/=2=(I)
Version : 06.11.2015

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 10 mg/m³
Limit value type : DNEL Consumer (systemic) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 17,4 mg/m³
Limit value type : DNEL Consumer (systemic) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 10 mg/m³
Limit value type : DNEL Consumer (systemic) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 10 mg/kg bw/day
Limit value type : DNEL worker (local) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 20 mg/m³
Limit value type : DNEL worker (systemic) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 70,53 mg/m³
Limit value type : DNEL worker (systemic) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 20 mg/kg bw/day

PNEC

Limit value type : PNEC aquatic, freshwater (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Limit value : 0,9 mg/l
Limit value type : PNEC aquatic, intermittent release (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Limit value : 9 mg/l
Limit value type : PNEC aquatic, marine water (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Limit value : 0,09 mg/l
Limit value type : PNEC Soil (PROPYLENE CARBONATE ; CAS No. : 108-32-7)

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Limit value : 0,81 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Limit value : 7400 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

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Aspect		liquid
Colour		brown
Odour		typical
Melting point/melting range :	(1013 hPa)	not determined
Vapour density	(air = 1)	Not Determined
Initial boiling point and boiling range :	(1013 hPa)	not determined
Decomposition temperature :		not determined
Flash point :		not determined
Ignition temperature :		not determined
Lower explosion limit :		not determined
Upper explosion limit :		not determined
Explosive properties		Product is not explosive
Vapour pressure	(20 °C)	No data available
Density :	(20 °C)	1,15 g/cm ³
Density :	(23 °C)	No data available
Water solubility :	(20 °C)	insoluble
pH :		not determined
Log Pow	(20 °C)	not determined
Viscosity :	(20 °C) approx.	111 mPa.s
Odour threshold :		not determined
Evaporation rate :		not determined
Oxidizing properties		Not oxidising

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9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Decomposes on heating. See section 7. No additional measures necessary. The product is combustible when exposed to flame.

10.3 Possibility of hazardous reactions

None particular

10.4 Conditions to avoid

Do not expose this product to high temperatures.

10.5 Incompatible materials

May react violently with strong acids. Oxidizing agents. Strong bases.

10.6 Hazardous decomposition products

Carbon monoxide. Isocyanates Hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 10000
Parameter :	LD50 (4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8)
Exposure route :	Oral
Species :	Mouse
Effective dose :	2200 mg/kg
Parameter :	LD50 (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 9400 mg/kg
Parameter :	LD0 (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Method :	OECD 402

Acute inhalation toxicity

Parameter :	LC50 (4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8)
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Exposure route : Inhalation
Species : Rat
Effective dose : 490 mg/m³

Irritant and corrosive effects

Primary irritation to the skin

Irritant.

Irritation to eyes

Irritant.

Irritation to respiratory tract

Irritant.

Sensitisation

In case of skin contact

sensitising.

In case of inhalation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

Causes damage to organs through prolonged or repeated exposure. After ingestion Inhalation lung

Subacute oral toxicity

Parameter : NOAEL(C) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg bw/day
Method : OECD 408

Subacute inhalation toxicity

Parameter : NOAEL(C) (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 100 mg/m³
Method : OECD 413

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of causing cancer.

SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)
Effective dose : > 1000 mg/l
Exposure time : 96 h

Parameter : LC50 (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Species : Cyprinus carpio (Common Carp)
Effective dose : > 1000 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Species : Daphnia magna (Big water flea)
Effective dose : > 1000 mg/l
Exposure time : 48 h
Method : OECD 202

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Chronic (long-term) daphnia toxicity

Parameter : NOEC (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)
Effective dose : > 10 mg/l

Acute (short-term) algae toxicity

Parameter : EC50 (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)

Effective dose : > 1640 mg/l
Exposure time : 72 h

Parameter : EC50 (PROPYLENE CARBONATE ; CAS No. : 108-32-7)

Species : Scenedesmus subspicatus
Effective dose : > 900 mg/l
Exposure time : 72 h
Method : OECD 201

Bacteria toxicity

Parameter : EC50 (PROPYLENE CARBONATE ; CAS No. : 108-32-7)
Species : Bacteria- activated sludge

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)

Evaluation : Readily biodegradable (according to OECD criteria).

Parameter : Biodegradation (PROPYLENE CARBONATE ; CAS No. : 108-32-7)

Effective dose : 90 %
Exposure time : 24 days
Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

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

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

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No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

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). Commission Regulation (EU) No 2016/1179 (IX ATP). Commission Regulation 2017/776 (EU) No (X ATP).

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

This product is not classified according to Directive 2012/18/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

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 65 - 70 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

not applicable

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)

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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 concernent 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)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6 Training advice

None

16.7 Additional information

None

Safety Data Sheet

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



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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.
