

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

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

1.1 Product identifier

PROTECH FLEX PRIMER

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

Building and construction preparations: Aggregate primer based on hygroscopic polyurethane resins.

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]

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.

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

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 SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

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



Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

Signal word

Safety Data Sheet

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Danger

Hazard components for labelling

AROMATIC POLYISOCYANATE PREPOLIMER ; CAS No. : 9016-87-9
DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9
4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8
DIPHENYLMETHANE-2,4'-DIISOCYANATE ; CAS No. : 5873-54-1

Hazard statements

H225 Highly flammable liquid and vapour.
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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
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

ACETONE ; REACH registration No. : 01-2119471330-49 ; EC No. : 200-662-2; CAS No. : 67-64-1

Weight fraction : $\geq 50 - < 55$ %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

XYLENE ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : $\geq 18 - < 19,5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

AROMATIC POLYISOCYANATE PREPOLIMER ; CAS No. : 9016-87-9

Weight fraction : $\geq 15 - < 20$ %
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

DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; REACH registration No. : 615-005-00-9 ; CAS No. : 9016-87-9

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Carc. 2 ; H351 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Skin

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335
XYLENE ; REACH registration No. : 01-2119488216-32 ; EC No. : 215-535-7 ; CAS No. : 1330-20-7
Weight fraction : $\geq 1 - < 5 \%$
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312
Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335
ETHYLBENZENE ; REACH registration No. : 01-2119489370-35 ; EC No. : 202-849-4 ; CAS No. : 100-41-4
Weight fraction : $\geq 1 - < 5 \%$
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332
BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36 ; EC No. : 203-905-0 ; CAS No. : 111-76-2
Weight fraction : $\geq 1 - < 5 \%$
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315
Eye Irrit. 2 ; H319
4,4'-METHYLENEDIPHENYL DIISOCYANATE ; REACH registration No. : 01-2119457014-47 ; EC No. : 202-966-0 ; CAS No. :
101-68-8
Weight fraction : $\geq 1 - < 5 \%$
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
DIPHENYLMETHANE-2,4'-DIISOCYANATE ; REACH registration No. : 01-2119480143-45 ; EC No. : 227-534-9 ; CAS No. :
5873-54-1
Weight fraction : $\geq 1 - < 5 \%$
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

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

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.

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 : 3

Storage class (TRGS 510) : 3

Keep away from

Safety Data Sheet

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Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

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

ACETONE ; CAS No. : 67-64-1

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 500 ppm / 1200 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 06.11.2015

Limit value type (country of origin) : TWA (EC)
Limit value : 500 ppm / 1210 mg/m³
Version : 08.06.2000

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 2(II)
Remark : H
Version : 02.04.2014

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
Remark : H
Version : 08.06.2000

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 88 mg/m³
Peak limitation : 2(II)
Remark : H, Y
Version : 06.11.2015

Limit value type (country of origin) : STEL (EC)
Limit value : 200 ppm / 884 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 08.06.2000

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 98 mg/m³
Peak limitation : 4(II)

Safety Data Sheet

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



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Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Remark : H,Y
Version : 06.11.2015
Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 246 mg/m³
Remark : H
Version : 08.06.2000
Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 98 mg/m³
Remark : H
Version : 08.06.2000
4,4'-METHYLENEDIPHENYL DIISOCYANATE ; CAS No. : 101-68-8
Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 0,05 mg/m³
Peak limitation : 1/=2=(I)
Remark : Sa, 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 (systemic) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 62 mg/kg
Limit value type : DNEL Consumer (systemic) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 62 mg/kg
Limit value type : DNEL Consumer (systemic) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 200 mg/m³
Limit value type : DNEL worker (systemic) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 186 mg/kg
Limit value type : DNEL worker (systemic) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 2420 mg/m³
Limit value type : DNEL worker (systemic) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 1210 mg/m³
Limit value type : DNEL Consumer (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 108 mg/kg
Limit value type : DNEL Consumer (systemic) (XYLENE ; CAS No. : 1330-20-7)

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 14,8 mg/m³
Limit value type : DNEL Consumer (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 1,6 mg/kg
Limit value type : DNEL worker (local) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/kg
Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m³
Limit value type : DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 38 mg/kg
Limit value type : DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 49 mg/m³
Limit value type : DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 3,2 mg/kg
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 75 mg/kg
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 98 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (ACETONE ; CAS No. : 67-64-1)
Limit value : 10,6 mg/l
Limit value type : PNEC aquatic, intermittent release (ACETONE ; CAS No. : 67-64-1)
Limit value : 21 mg/l
Limit value type : PNEC aquatic, marine water (ACETONE ; CAS No. : 67-64-1)
Limit value : 1,06 mg/l
Limit value type : PNEC sediment, freshwater (ACETONE ; CAS No. : 67-64-1)
Limit value : 30,4 mg/kg
Limit value type : PNEC sediment, marine water (ACETONE ; CAS No. : 67-64-1)
Limit value : 3,04 mg/kg
Limit value type : PNEC Soil (ACETONE ; CAS No. : 67-64-1)
Limit value : 33,3 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (ACETONE ; CAS No. : 67-64-1)
Limit value : 100 mg/l

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Limit value type :	PNEC aquatic, freshwater (XYLENE ; CAS No. : 1330-20-7)
Limit value :	0,32 mg/l
Limit value type :	PNEC aquatic, intermittent release (XYLENE ; CAS No. : 1330-20-7)
Limit value :	0,32 mg/l
Limit value type :	PNEC aquatic, marine water (XYLENE ; CAS No. : 1330-20-7)
Limit value :	0,32 mg/l
Limit value type :	PNEC sediment, freshwater (XYLENE ; CAS No. : 1330-20-7)
Limit value :	12,46 mg/kg
Limit value type :	PNEC sediment, marine water (XYLENE ; CAS No. : 1330-20-7)
Limit value :	12,46 mg/kg
Limit value type :	PNEC Soil (XYLENE ; CAS No. : 1330-20-7)
Limit value :	2,31 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (XYLENE ; CAS No. : 1330-20-7)
Limit value :	6,58 mg/l
Limit value type :	PNEC aquatic, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	8,8 mg/l
Limit value type :	PNEC aquatic, intermittent release (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	9,1 mg/l
Limit value type :	PNEC aquatic, marine water (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	0,88 mg/l
Limit value type :	PNEC sediment, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	34,6 mg/kg
Limit value type :	PNEC sediment, marine water (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	3,46 mg/kg
Limit value type :	PNEC Soil (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	3,13 mg/kg
Limit value type :	PNEC Secondary Poisoning (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	0,02 g/kg
Limit value type :	PNEC sewage treatment plant (STP) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	463 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

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
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Version (Revision) : 3.0.0 (2.0.0)

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Aspect		liquid
Colour		amber
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
Self flammability		No data available
Flash point :	<	23 °C
Flammability (solid, gas)		Not applicable
Lower explosion limit :		not determined
Upper explosion limit :		not determined
Explosive properties		Vapours may form explosive mixture
Vapour pressure	(20 °C)	not determined
Density :	(20 °C)	0,95 g/cm ³
Water solubility :	(20 °C)	Partially soluble
Soluble in:	(20 °C)	polar solvents
pH :		not determined
Log Pow	(20 °C)	not determined
Viscosity :	(20 °C)	not determined
Odour threshold :		not determined
Evaporation rate :		not determined
Oxidizing properties		Not oxidising

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable Ignition hazard

10.2 Chemical stability

Decomposes on heating. See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions

May catch fire on contact with oxidising mineral acids, strong oxidizing agents.

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.

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 (XYLENE ; CAS No. : 1330-20-7)

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Exposure route : Oral
Species : Rat
Effective dose : 8700 mg/kg

Acute dermal toxicity

Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 6350 mg/l

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

sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

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

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 (ACETONE ; CAS No. : 67-64-1)
Effective dose : 4144 mg/l
Exposure time : 96 h

Parameter : LC50 (ACETONE ; CAS No. : 67-64-1)
Effective dose : = 4042 mg/l
Exposure time : 14 days

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 (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 2,6 mg/l
Exposure time : 96 h

Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Oncorhynchus mykiss (Rainbow trout)

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Effective dose : 1474 mg/l

Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)

Species : Oncorhynchus mykiss (Rainbow trout)

Effective dose : > 1,3 mg/l

Exposure time : 56 g

Acute (short-term) daphnia toxicity

Parameter : EC50 (ACETONE ; CAS No. : 67-64-1)

Effective dose : 1680 mg/l

Exposure time : 48 h

Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)

Species : Daphnia magna (Big water flea)

Effective dose : 1 mg/l

Exposure time : 24 h

Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Species : Daphnia magna (Big water flea)

Effective dose : 1550 mg/l

Exposure time : 48 h

Chronic (long-term) daphnia toxicity

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

Effective dose : > 10 mg/l

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)

Species : Daphnia magna (Big water flea)

Effective dose : 1,57 mg/l

Exposure time : 21 g

Acute (short-term) algae toxicity

Parameter : EC50 (ACETONE ; CAS No. : 67-64-1)

Effective dose : 302 mg/l

Exposure time : 96 h

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

Effective dose : > 1640 mg/l

Exposure time : 72 h

Parameter : EC0 (XYLENE ; CAS No. : 1330-20-7)

Species : Pseudokirchneriella subcapitata

Effective dose : 0,44 mg/l

Exposure time : 73 h

Parameter : ErC50 (XYLENE ; CAS No. : 1330-20-7)

Species : Pseudokirchneriella subcapitata

Effective dose : 4,36 mg/l

Exposure time : 72 h

Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Species : Pseudokirchneriella subcapitata

Effective dose : 911 mg/l

Exposure time : 72 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (ACETONE ; CAS No. : 67-64-1)

Effective dose : 90,9 %

Exposure time : 28 days

Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

Parameter : Biodegradation (AROMATIC POLYISOCYANATE PREPOLIMER ; CAS No. : 9016-87-9)

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Evaluation : Readily biodegradable (according to OECD criteria).
Parameter : Biodegradation (DIPHENYLMETHANE-4,4'-DIISOCYANATE, ISOMERES AND HOMOLOGUES ; CAS No. : 9016-87-9)
Evaluation : Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (ACETONE ; CAS No. : 67-64-1)
Concentration : 3

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 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT

Sea transport (IMDG)

PAINT

Air transport (ICAO-TI / IATA-DGR)

PAINT

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 33
Tunnel restriction code : D/E
Special provisions : 640D · LQ 5 I · E 2 · ADR : III (<= 450 l)
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 5 I · E 2 · IMDG 2.3.2.3 (Packing group III <= 30 l)
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 2 · IATA 3.3.3.1 (Packing group III <= 30 l)

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

Hazard label(s) : 3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

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). Regulation (EU) No 2018/669 (XI ATP). Regulation (EU) No 2018/669 (XI ATP). Regulation (EU) No 2018/669 (XI ATP). Regulation (EU) No 2018/669 (XI ATP).

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Classification according to Annex I, Part 1 P5c Flammable liquids

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) : 35 - 40 %

Water hazard class (WGK)

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

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 08. Occupational exposure limit values · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Störfallverordnung - For substances contained in

Safety Data Sheet

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



Trade name : PROTECH FLEX PRIMER
Revision date : 31.03.2021
Print date : 08.04.2021

Version (Revision) : 3.0.0 (2.0.0)

the product : 15. Technische Anleitung Luft (TA-Luft)

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 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)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

Safety Data Sheet

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



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Version (Revision) : 3.0.0 (2.0.0)

H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
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.
H336	May cause drowsiness or dizziness.
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

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.
