

Safety Data Sheet

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



Trade name : PROTECH SIL P THERM
Revision date : 26.02.2019
Print date : 26.02.2019

Version : 1.0.0

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

1.1 Product identifier

PROTECH SIL P THERM

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

Relevant identified uses

Preparation for building and construction: Anti-condensation, elastic, sanitizing, heat-reflecting paint for facades

Uses advised against

None

1.3 Details of the supplier of the safety data sheet

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

AZICHEM Srl

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Postal code/city : 46044 Goito (MN)

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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]

None

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE ; OCTHILINONE (ISO).May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

DIURON (ISO) ; REACH registration No. : 01-2119517622-45 ; EC No. : 206-354-4 ; CAS No. : 330-54-1

Weight fraction : < 0,5 %

Classification 1272/2008 [CLP] : Carc. 2 ; H351 STOT RE 2 ; H373 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400

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(M=10)Aquatic Chronic 1 ; H410 (M=10)
1,2-BENZISOTHAZOL-3(2H)-ONE ; EC No. : 220-120-9; CAS No. : 2634-33-5
Weight fraction : $\geq 0,005$ - $< 0,05$ %
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400
OCTHILINONE (ISO) ; EC No. : 247-761-7; CAS No. : 26530-20-1
Weight fraction : $\geq 0,005$ - $< 0,05$ %
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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 an allergic skin reaction.

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 dioxide (CO₂) 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

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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 : 13

Storage class (TRGS 510) : 11

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

OCTHILINONE (ISO) ; CAS No. : 26530-20-1

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

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Parameter : E: inhalable fraction
Limit value : 0,05 mg/m³
Peak limitation : 2(I)
Remark : H,Y
Version : 06.11.2015

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL worker (systemic) (DIURON (ISO) ; CAS No. : 330-54-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 5,79 mg/kg
Limit value type : DNEL worker (systemic) (DIURON (ISO) ; CAS No. : 330-54-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 0,17 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 0,00032 mg/l
Limit value type : PNEC aquatic, intermittent release (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 0,00022 mg/l
Limit value type : PNEC aquatic, marine water (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 0,00003 mg/l
Limit value type : PNEC sediment, freshwater (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 0,05172 mg/kg
Limit value type : PNEC sediment, marine water (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 0,00517 mg/kg
Limit value type : PNEC Soil (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 0,012 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (DIURON (ISO) ; CAS No. : 330-54-1)
Limit value : 58 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

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

Tested protective gloves must be worn DIN EN 374

By short-term hand contact : Butyl caoutchouc (butyl rubber) Breakthrough time : > 480 min. > 0,7 mm

By long-term hand contact : NBR (Nitrile rubber) > 30 min. > 0,4 mm

Respiratory protection

Respiratory protection not required

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SECTION 9: Physical and chemical properties

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)		102 °C
Decomposition temperature :			No data available
Self flammability			204 °C
Flash point :	>		60 °C
Flammability (solid, gas)			Not applicable
Lower explosion limit :			No data available
Upper explosion limit :			not determined
Explosive properties			Data not available
Vapour pressure	(20 °C)		23,41 hPa
Density :	(20 °C)		1,581 g/cm ³
Water solubility :	(20 °C)		Soluble
pH :			8
Log Pow	(20 °C)		not applicable
Viscosity :	(20 °C)	approx.	2,3 mPa.s
Odour threshold			Data not available
Evaporation rate			Data not available
Oxidizing properties			Not oxidising

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable.

10.2 Chemical stability

Stable under recommended storage and handling conditions. See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled properly.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

If burned can release: Carbon dioxide. Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

There are no data available on the mixture itself.

Acute oral toxicity

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Parameter : LD50 (DIURON (ISO) ; CAS No. : 330-54-1)
Exposure route : Oral
Species : Rat
Effective dose : 1017 mg/kg

Acute dermal toxicity

Parameter : LD50 (DIURON (ISO) ; CAS No. : 330-54-1)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Parameter : LD50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Exposure route : Dermal
Species : Rat
Effective dose : > 5000 mg/kg

Irritant and corrosive effects

Primary irritation to the skin

Not an irritant.

Irritation to eyes

Not an irritant.

Irritation to respiratory tract

Not an irritant.

Sensitisation

In case of skin contact

May cause an allergic skin reaction.

In case of inhalation

No known sensitizing effect.

Repeated dose toxicity (subacute, subchronic, chronic)

There were no chronic effects or effects at low concentrations.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

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 (DIURON (ISO) ; CAS No. : 330-54-1)
Species : Leuciscus idus (golden orfe)
Effective dose : 6,6 mg/l
Exposure time : 96 h

Parameter : LC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 1,9 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : LC50 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Effective dose : 0,1 - 1 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (DIURON (ISO) ; CAS No. : 330-54-1)
Species : Daphnia magna (Big water flea)
Effective dose : 1,4 mg/l

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Exposure time : 48 h
Parameter : EC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Species : Daphnia magna (Big water flea)
Effective dose : 3,7 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Effective dose : 0,1 - 1 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : EC50 (DIURON (ISO) ; CAS No. : 330-54-1)
Species : Scenedesmus subspicatus
Effective dose : 0,022 mg/l
Exposure time : 96 h
Parameter : EC50 (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Species : Acute (short-term) algae toxicity
Effective dose : 0,1 - 1 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Effective dose : 0,1 - 1 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

There are no data available on the mixture itself.

Biodegradation

Parameter : Biodegradation (DIURON (ISO) ; CAS No. : 330-54-1)
Effective dose : 0 %
Exposure time : 28 days
Parameter : Biodegradation (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Effective dose : 0
Exposure time : 28 g

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Concentration : 2
Parameter : Bioconcentration factor (BCF) (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Concentration : 2
Parameter : Log KOC (1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5)
Concentration : 1,45

There are no data available on the mixture itself.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product is none, or does not contain a substance called a PBT or vPvB

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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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)

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) : < 5 %

Water hazard class (WGK)

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

15.2 Chemical safety assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

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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 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]

not applicable

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

H302 Harmful if swallowed.

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H311+H331	Toxic in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic 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.
