



SODAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: 100001058

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

1.1. Product identifier

Product form : Mixture
Trade name : SODAL Soudatherm Roof 330
Vaporizer : Container fitted with a sealed spray attachment

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

Relevant identified uses

Main use category : Consumer use, Professional use
Use of the substance/mixture : adhesives
Polyurethane

1.3. Details of the supplier of the safety data sheet

Supplier

Soudal N.V.
Everdongenlaan 18-20
2300 Turnhout
Belgium
T +32 14 42 42 31, F +32 14 42 65 14
sds@soudal.com, www.Soudal.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Gases under pressure : Compressed gas H280
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Respiratory sensitisation, Category 1 H334
Skin sensitisation, Category 1 H317
Carcinogenicity, Category 2 H351
Specific target organ toxicity – Single exposure, Category 3, H335
Respiratory tract irritation
Specific target organ toxicity – Repeated exposure, Category 2 H373
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Contains gas under pressure; may explode if heated. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Soudal Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Extra phrases

- : Danger
- : polymethylene polyphenyl isocyanate
- : H280 - Contains gas under pressure; may explode if heated.
- 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.
- : 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.
- P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- : Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
- As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

The product does not meet the PBT and vPvB classification criteria

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	triethyl phosphate (78-40-0), polymethylene polyphenyl isocyanate (9016-87-9), trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	triethyl phosphate (78-40-0), polymethylene polyphenyl isocyanate (9016-87-9), trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SOUDAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
polymethylene polyphenyl isocyanate	CAS-No.: 9016-87-9	≥ 25 – < 50	Carc. 2, H351 Resp. Sens. 1, H334 Skin Sens. 1, H317 Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) STOT RE 2, H373 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
trans-1,3,3,3-tetrafluoroprop-1-ene (Propellant gas)	CAS-No.: 29118-24-9 REACH-no: 01-0000019758-54	≥ 10 – < 25	Press. Gas (Liq.), H280
triethyl phosphate	CAS-No.: 78-40-0 EC-No.: 201-114-5 EC Index-No.: 015-013-00-7 REACH-no: 01-2119492852-28	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 (ATE=1600 mg/kg bodyweight) Eye Irrit. 2, H319
reaction products of phosphoryl trichloride and 2-methyloxirane	CAS-No.: 1244733-77-4 EC-No.: 807-935-0 REACH-no: 01-2119486772-26	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 (ATE=632 mg/kg bodyweight) Carc. 2, H351 Aquatic Chronic 3, H412

Comments : polymethylene polyphenyl isocyanate, contains > 0.1% MDI isomers

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Soudal Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Store locked up. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

Soudal Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL and PNEC

triethyl phosphate (78-40-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	26,8 mg/kg bodyweight/day
Acute - systemic effects, inhalation	94,5 mg/m ³
Long-term - systemic effects, dermal	2 mg/kg bw/day
Long-term - systemic effects, inhalation	9,9 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	13,36 mg/kg bodyweight/day
Acute - systemic effects, inhalation	23,28 mg/m ³
Acute - systemic effects, oral	5 mg/kg bw/day
Long-term - systemic effects, oral	1 mg/kg bw/day
Long-term - systemic effects, inhalation	1,74 mg/m ³
Long-term - systemic effects, dermal	1 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0,632 mg/l
PNEC aqua (marine water)	0,063 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5 mg/kg dwt
PNEC sediment (marine water)	0,5 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,64 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	298,5 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses (EN 166)

Skin protection

Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

Soudal Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hand protection:

Protective gloves against chemicals (EN 374)

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		EN ISO 374

Respiratory protection

Respiratory protection:

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Variable.
Appearance	: Liquid under pressure.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1,154 g/cm ³ (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

VOC content : 23 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

SODAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

SODAL Soudatherm Roof 330

ATE CLP (dust,mist)	3,061 mg/l/4h
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triethyl phosphate (78-40-0)

LD50 oral rat	1600 mg/kg bodyweight (Rat, Experimental value, Oral)
LD50 dermal rabbit	> 20000 mg/kg bodyweight (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	> 8,817 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

polymethylene polyphenyl isocyanate (9016-87-9)

LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)

trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

LC50 Inhalation - Rat	> 965 mg/l (4 h, Rat, Read-across, Inhalation (gases))
LC50 Inhalation - Rat [ppm]	> 359300 ppm (4 h, Rat, Read-across, Inhalation)

reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

LD50 oral rat	632 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 7 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

pH	Not applicable (gas)
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Serious eye damage/irritation : Causes serious eye irritation.

trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

pH	Not applicable (gas)
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Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

SOUDAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Carcinogenicity : Suspected of causing cancer.

polymethylene polyphenyl isocyanate (9016-87-9)

IARC group : 3 - Not classifiable

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

polymethylene polyphenyl isocyanate (9016-87-9)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

triethyl phosphate (78-40-0)

NOAEL (oral, rat, 90 days) : 1000 mg/kg bodyweight (Animal: rat, EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)))

polymethylene polyphenyl isocyanate (9016-87-9)

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure (if inhaled).

Aspiration hazard : Not classified

SOUDAL Soudatherm Roof 330

Vaporizer : Container fitted with a sealed spray attachment

triethyl phosphate (78-40-0)

Viscosity, kinematic : 1,6 mm²/s (20 °C, Calculated)

polymethylene polyphenyl isocyanate (9016-87-9)

Viscosity, kinematic : ≥ 161,551 mm²/s

trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

Viscosity, kinematic : Not applicable (gas)

reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

Viscosity, kinematic : 52,692 – 53,516 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

triethyl phosphate (78-40-0)

LC50 - Fish [1] : > 100 mg/l (EPA 600/3-75/009, 96 h, Pimephales promelas, Static system, Fresh water, Weight of evidence, Nominal concentration)

EC50 - Crustacea [1] : 950 mg/l (DIN 38412-11, 24 h, Daphnia magna, Fresh water, Weight of evidence, Locomotor effect)

EC50 72h - Algae [1] : 901 mg/l (Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Cell numbers)

SOUDAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

triethyl phosphate (78-40-0)	
NOEC (chronic)	31,6 mg/l (OECD 211, Test organisms (species): Daphnia magna Duration: '21 d')
polymethylene polyphenyl isocyanate (9016-87-9)	
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)	
LC50 - Fish [1]	> 117 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Similar product)
EC50 - Crustacea [1]	> 160 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Similar product)
ErC50 algae	> 170 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Similar product)
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
LC50 - Fish [1]	51 mg/l Pimephalis promelas
EC50 - Crustacea [1]	131 mg/l Daphnia magna
EC50 72h - Algae [1]	82 mg/l Pseudokirchnerella subcapitata
NOEC chronic crustacea	32 mg/l
NOEC chronic algae	13 mg/l

12.2. Persistence and degradability

SOUDAL Soudatherm Roof 330	
Persistence and degradability	Not rapidly degradable
triethyl phosphate (78-40-0)	
Persistence and degradability	Inherently biodegradable, Not readily biodegradable in water.
polymethylene polyphenyl isocyanate (9016-87-9)	
Persistence and degradability	not readily degradable in water.
trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)	
Persistence and degradability	Not readily biodegradable in water.
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
Persistence and degradability	not readily degradable in water.
Biodegradation	14 % OECD 301E

12.3. Bioaccumulative potential

triethyl phosphate (78-40-0)	
BCF - Fish [1]	0,5 – 1,3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Semi-static system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1,11 (Experimental value, EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
polymethylene polyphenyl isocyanate (9016-87-9)	
BCF - Fish [1]	268 l/kg (BCFBFAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	10 (Calculated, KOWWIN)

SODAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

polymethylene polyphenyl isocyanate (9016-87-9)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)	
Partition coefficient n-octanol/water (Log Pow)	1,6 (Similar product, Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
BCF - Fish [1]	0,8 – 14
Partition coefficient n-octanol/water (Log Pow)	2,68

12.4. Mobility in soil

triethyl phosphate (78-40-0)	
Surface tension	38 mN/m (-57 °C, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,642 – 1,807 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.
polymethylene polyphenyl isocyanate (9016-87-9)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9,1 – 11 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Product adsorbs onto the soil.
trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)	
Ecology - soil	Not applicable (gas).
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,24

12.5. Results of PBT and vPvB assessment

SODAL Soudatherm Roof 330	
The product does not meet the PBT and vPvB classification criteria	
Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	triethyl phosphate (78-40-0), polymethylene polyphenyl isocyanate (9016-87-9), trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	triethyl phosphate (78-40-0), polymethylene polyphenyl isocyanate (9016-87-9), trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SODAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Additional information	: Waste disposal according to Directive 2008/98/EC, covering waste and dangerous waste. Waste code can not be determined according to the European waste catalog (EWC), since it depends on the use of the product. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Ecological waste information	: Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	: 08 05 01* - waste isocyanates 16 05 04* - gases in pressure containers (including halons) containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3500	UN 3500	UN 3500	UN 3500	UN 3500
14.2. UN proper shipping name				
CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene)	CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene)	Chemical under pressure, n.o.s. (trans-1,3,3,3-tetrafluoroprop-1-ene)	CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene)	CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene)
Transport document description				
UN 3500 CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene), 2.2, (C/E)	UN 3500 CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene), 2.2	UN 3500 Chemical under pressure, n.o.s. (trans-1,3,3,3-tetrafluoroprop-1-ene), 2.2	UN 3500 CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene), 2.2	UN 3500 CHEMICAL UNDER PRESSURE, N.O.S. (trans-1,3,3,3-tetrafluoroprop-1-ene), 2.2
14.3. Transport hazard class(es)				
2.2	2.2	2.2	2.2	2.2
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-C EmS-No. (Spillage): S-V	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				


SODAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 8A
Special provisions (ADR)	: 274, 659
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P206
Mixed packing provisions (ADR)	: MP9
Portable tank and bulk container instructions (ADR)	: T50
Portable tank and bulk container special provisions (ADR)	: TP4, TP40
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: --
Special provisions for carriage - Bulk (ADR)	: --
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV10, CV12, CV36
Hazard identification number (Kemler No.)	: 20
Orange plates	: 

Tunnel restriction code (ADR) : C/E

Transport by sea

Special provisions (IMDG)	: 274, 362
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P206
Tank instructions (IMDG)	: T50
Tank special provisions (IMDG)	: TP4, TP40
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Liquids, pastes or powders, pressurized with a propellant which meets the definition of a gas.

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 218
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 218
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A187
ERG code (IATA)	: 2L

Inland waterway transport

Classification code (ADN)	: 8A
Special provisions (ADN)	: 274, 659
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: 8A
Special provisions (RID)	: 274, 659
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P206
Mixed packing provisions (RID)	: MP9

Soudal Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Portable tank and bulk container instructions (RID) : T50
Portable tank and bulk container special provisions (RID) : TP4, TP40
Transport category (RID) : 3
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW10, CW12, CW36
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 20

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	Soudal Soudatherm Roof 330 ; triethyl phosphate ; polymethylene polyphenyl isocyanate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
56.	polymethylene polyphenyl isocyanate	Methylenediphenyl diisocyanate (MDI)
56(a)	polymethylene polyphenyl isocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate
56(b)	polymethylene polyphenyl isocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,4'-Methylenediphenyl diisocyanate
56(c)	polymethylene polyphenyl isocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,2'-Methylenediphenyl diisocyanate
74.	polymethylene polyphenyl isocyanate	Diisocyanates, $O = C=N-R-N = C=O$, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 23 %

SOUDAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
8.2		Modified

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Soudal Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:

SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
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.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Press. Gas (Comp.)	H280	Expert judgement
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SOUDAL Soudatherm Roof 330

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

Safety Data Sheet (SDS), EU-2025-1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.