

FIREPRO® Acoustic Intumescent Sealant

Revision Date: 13/03/2023
Revision No: Version 4.0 March 2023 (EU)
Previous Version: Version 3.0 May 2022

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product form	Mixture
Trade name	FIREPRO® Acoustic Intumescent Sealant
Type of product	Sealants
Product group	Trade product

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

1.2.1 Relevant identified uses

Main use category	Professional use
Industrial / Professional use spec	For professional use only
Use of substance / mixture	Adhesives, sealants

1.2.2 Uses advised against

No additional information available

1.3 Details of supplier

ROCKWOOL® Ltd, Pencoed, Bridgend, CF35 6NY
Tel: +44 (0) 1656 862621
Email of person responsible: sds@rockwool.com

1.4 Emergency telephone numbers

ROCKWOOL® Ltd Customer Support 9am-5pm
Tel: +44 (0) 1656 862621
Email: sds@rockwool.com

Section 2. Hazards identification

2.1 Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

2.2 Label elements

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

EUH-statements

EUH205 - Contains epoxy constituents.
May produce an allergic reaction

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction

EUH210 - Safety data sheet available on request

2.3 Other hazards

Other hazards which do not result in classification

Dust formation

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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

Section 3. Composition / information on ingredients

3.1 Substances Not applicable

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium Carbonate	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	30-50	Not classified
Aluminium Hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-no) 01-2119529246-39	10-30	Not classified
Titanium Dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-00-2 (REACH-no) 01-2119489379-17	<1	Carc. 2, H351
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	<1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	<1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Specific concentration limits

Name	Product identifier	Specific concentration limit
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(0.05 ≤ C ≤ 100) Skin Sens. 1, H317
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤ C < 0.6) Skin Irrit. 2, H315 (0.06 ≤ C < 0.6) Eye Irrit. 2, H319 (0.6 ≤ C ≤ 100) Skin Corr. 1C, H314 (0.6 ≤ C ≤ 100) Eye Dam. 1, H318

Comments: Titanium dioxide

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.
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 after inhalation	Remove person to fresh air and keep comfortable for breathing
First-aid measures after skin contact	Wash skin with plenty of water
First-aid measures after eye contact	Rinse eyes with water as a precaution
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	Immediate effects can be expected after short term exposure
Symptoms/effects after inhalation	May cause minor irritation to the respiratory tract and to other mucous membranes
Symptoms/effects after skin contact	May cause slight irritation to the skin
Symptoms/effects after eye contact	May cause minor eye irritation
Symptoms/effects after ingestion	May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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	Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Toxic fumes may be released
--	---

5.3 Advice for fire fighters

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

6.1.1 For non-emergency personnel

Emergency procedures Ventilate spillage area

6.1.2 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 materials for containment and cleaning up

Methods for cleaning up Ventilate spillage area. Shovel or sweep up and put in a closed container for disposal. Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Prevent the product from entering drains or confined areas

Other information Dispose of materials or solid residues at an authorised site

6.4 Reference to other sections For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection"

Section 7. Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation

Hygiene measures 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 Store in a well-ventilated place. Keep cool

Incompatible materials Strong acids

7.3 Specific end use(s) No additional information available

Section 8. Exposure controls / personal protection

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

Calcium carbonate (471-34-1)

Croatia - Occupational Exposure Limits

Local name	Kalcijev karbonat
GVI (OEL TWA) [1]	4 mg/m ³ R (respirabilna prašina) 10 mg/m ³ U (ukupna prašina)
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)

France - Occupational Exposure Limits

Local name	Calcium (carbonate de) (Calcite) (Marbre)
VME (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Germany - Occupational Exposure Limits (TRGS 552)

Concentration limits	6 mg/m ³
----------------------	---------------------

Ireland - Occupational Exposure Limits

Local name	Calcium carbonate (Limestone, Marble)
OEL TWA [1]	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Regulatory reference	Chemical Agents Code of Practice 2021

Latvia - Occupational Exposure Limits

Local name	Kalcija karbonāts
OEL TWA	6 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)

Poland - Occupational Exposure Limits

Local name	Węglan wapnia
NDS (OEL TWA)	10 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia
Regulatory reference	Dz. U. 2018 poz. 1286

Calcium carbonate (471-34-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Calcium carbonate (Limestone, Marble)
WEL TWA (OEL TWA) [1]	10 mg/m ³ total inhalable 4 mg/m ³ respirable
WEL STEL (OEL STEL)	4 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
Local name	Carbonate de calcium / Calciumcarbonat
MAK (OEL TWA) [1]	3 mg/m ³ (a) / (a)
Remark	NIOSH
Regulatory reference	www.suva.ch, 28.03.2022
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m ³
Aluminium Hydroxide (21645-51-2)	
Austria - Occupational Exposure Limits	
Local name	Aluminiumhydroxid
MAK (OEL TWA)	5 mg/m ³ (A)
MAK (OEL STEL)	10 mg/m ³ (A, 2x 60(Miw) min)
Regulatory reference	BGBI. II Nr. 238/2018
Latvia - Occupational Exposure Limits	
Local name	Alumīnija hidroksīds
OEL TWA	6 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
Local name	Aluminio hidroksidas
IPRV (OEL TWA)	6 mg/m ³
Remark	F (fibrogeninis poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

Aluminium Hydroxide (21645-51-2)

Poland - Occupational Exposure Limits

Local name	Wodorotlenek glinu
NDS (OEL TWA)	1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna 2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikająca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286

Slovakia - Occupational Exposure Limits

Local name	Hydroxid hlinitý
NPHV (OEL TWA) [1]	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	10 mg/m ³ total dust 4 mg/m ³ respirable dust
-----------------------	--

Switzerland - Occupational Exposure Limits

Local name	Aluminium hydroxyde / Aluminiumhydroxid
MAK (OEL TWA) [1]	3 mg/m ³ (a) / (a)
Critical toxicity	Formel / Formal
Notation	B / B
Remark	NIOSH
Regulatory reference	www.suva.ch, 28.03.2022

Switzerland - BAT

Local name	Aluminium hydroxyde / Aluminiumhydroxid
BAT	50 µg/g creatinine (0.21 µmol/mmol cr.; Paramètre biologique: Aluminium; Substrat d'examen: Urine; Moment du prélèvement: Exposition de longue durée: après plusieurs périodes de travail.) / (0.21 µmol/mmol cr.; Biologischer Parameter: Aluminium; Untersuchungsmaterial: Urin; Probennahmezeitpunkt: Bei Langzeitexposition: nach mehreren vorangegangenen Schichten.)
Regulatory reference	Ordonnance 832.30 (OPA), article 50 al. 3, www.suva.ch/valeurs-limites / Verordnung 832.30 (VUV), Art. 50 Abs. 3, www.suva.ch/grenzwerte

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

Austria - Occupational Exposure Limits

Local name	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)
MAK (OEL TWA)	0.05 mg/m ³
Remark	Sh
Regulatory reference	BGBI. II Nr. 238/2018

Switzerland - Occupational Exposure Limits

Local name	2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle et 2,3-dihydro-isothiazol-3-one de 2-méthyle [2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle, 2,3-Dihydro-isothiazol-3-one de 2-méthyle] / 5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on [2-Methyl-2,3-dihydroisothiazol-3-on, 5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on]
MAK (OEL TWA) [1]	0.2 mg/m ³ (i) / (e)
KZGW (OEL STEL)	0.4 mg/m ³ (i) / (e)
Critical toxicity	VRS, Peau, Yeux / OAW, Haut, Auge
Notation	S, SS _C / S, SS _C
Regulatory reference	www.suva.ch, 01.01.2021

Titanium Dioxide (13463-67-7)

Austria - Occupational Exposure Limits

Local name	Titandioxid (Alveolarstaub)
MAK (OEL TWA)	5 mg/m ³ (A)
MAK (OEL STEL)	10 mg/m ³ (A, 2x 60(Miw) min)
Regulatory reference	BGBI. II Nr. 238/2018

Belgium - Occupational Exposure Limits

Local name	Titane (dioxyde de) # Titaandioxide
OEL TWA	10 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021


Bulgaria - Occupational Exposure Limits

Local name	Титанов диоксид
OEL TWA	10 mg/m ³ (респирабилен прах)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)

Titanium Dioxide (13463-67-7)	
Croatia - Occupational Exposure Limits	
Local name	Titanov dioksid
GVI (OEL TWA) [1]	10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina)
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
Denmark - Occupational Exposure Limits	
Local name	Titandioxid
OEL TWA [1]	6 mg/m ³ beregnet som Ti
Regulatory reference	BEK nr 2203 af 29. november 2021
Estonia - Occupational Exposure Limits	
Local name	Titaanoksiid
OEL TWA	5 mg/m ³
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti
VME (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Greece - Occupational Exposure Limits	
Local name	Τιτανίου διοξειδίο
OEL TWA	10 mg/m ³ εισπν 5 mg/m ³ αναπν
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Ireland - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA [1]	4 mg/m ³ respirable dust 10 mg/m ³ total inhalable dust
Regulatory reference	Chemical Agents Code of Practice 2021
Latvia - Occupational Exposure Limits	
Local name	Titāna dioksīds
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)

Titanium Dioxide (13463-67-7)	
Lithuania - Occupational Exposure Limits	
Local name	Titano dioksidas
IPRV (OEL TWA)	5 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Poland - Occupational Exposure Limits	
Local name	Ditlenek tytanu
NDS (OEL TWA)	10 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednoczesne oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Dióxido de titânio
OEL TWA	10 mg/m ³
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Dioxid de titan
OEL TWA	10 mg/m ³
OEL STEL	15 mg/m ³
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Oxid titaničitý
NPHV (OEL TWA) [1]	5 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (OEL TWA) [1]	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT

Titanium Dioxide (13463-67-7)	
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
IPRV (OEL TWA)	5 mg/m ³ totaldamm
Remark	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Titanium dioxide
WEL TWA (OEL TWA) [1]	10 mg/m ³ total inhalable 4 mg/m ³ respirable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Títandióxið, sem Ti
OEL TWA	6 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdi (OEL TWA) [1]	5 mg/m ³
Regulatory reference	FOR-2021-06-28-2248
Switzerland - Occupational Exposure Limits	
Local name	Dioxyde de titane / Titandioxid
MAK (OEL TWA) [1]	3 mg/m ³ (a) / (a)
Critical toxicity	VRI / UAW
Notation	SS _c / SS _c
Remark	NIOSH
Regulatory reference	www.suva.ch, 28.03.2022

8.1.2	Recommended monitoring procedures	No additional information available
8.1.3	Air contaminants formed	No additional information available
8.1.4	DNEL and PNEC	No additional information available
8.1.5	Control banding	No additional information available
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure good ventilation of the work station
8.2.2	Personal Protective Equipment	Dust formation: Dust mask. Gloves
	Personal protective equipment symbol(s)	
8.2.2.1	Eye and face protection	
	Eye protection	
Eye protection		
Type	Field of application	Characteristics
Safety glasses		Standard
		EN 166
8.2.2.2	Skin protection	
	Skin and body protection	Wear suitable protective clothing
	Hand protection	Protective gloves
Hand protection		
Type	Material	Permeation
		Thickness (mm)
		Penetration
		Standard
Disposable gloves		EN ISO 374
8.2.2.3	Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
8.2.2.4	Thermal hazards	No additional information available
8.2.3	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	White. Grey. Light grey. Black. Red. Brown
Appearance	Paste
Odour	Acrylic-like
Odour threshold	Not available
Melting point	Not applicable
Freezing point	Not available
Boiling point	Not available
Flammability	Not applicable
Explosive limits	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	6.5 – 9
Viscosity, kinematic	Not available
Viscosity, dynamic	300000 – 900000 cP
Solubility	Not available
Partition coefficient n-octanol/water (Log Pow)	Not available
Vapour pressure	Not available
Vapour pressure at 50 °C	Not available
Density	1.56 – 1.66 g/cm ³
Relative density	Not available
Relative vapour density at 20 °C	Not available
Particle characteristics	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes	No additional information available
9.2.2 Other safety characteristics	No additional information available

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
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	Oxidizing agent. Strong acids
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)	Not classified

Calcium carbonate (471-34-1)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LC50 Inhalation - Rat	> 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Aluminium Hydroxide (21645-51-2)

LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.3 mg/l

Titanium Dioxide (13463-67-7)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 6.8 mg/l/4h
Skin corrosion/irritation	Not classified pH: 6.5 – 9

Calcium carbonate (471-34-1)		
pH	8.5 - 9.5	
Aluminium Hydroxide (21645-51-2)		
pH	9	
Titanium Dioxide (13463-67-7)		
pH	6 - 8	
Serious eye damage/irritation	Not classified. pH: 6.5 – 9	
Calcium carbonate (471-34-1)		
pH	8.5 - 9.5	
Aluminium Hydroxide (21645-51-2)		
pH	9	
Titanium Dioxide (13463-67-7)		
pH	6 - 8	
Respiratory or skin sensitisation	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
Aluminium Hydroxide (21645-51-2)		
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight	
STOT-single exposure	Not classified	
STOT-repeated exposure	Not classified	
Calcium carbonate (471-34-1)		
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
Aspiration hazard	Not classified	
Calcium carbonate (471-34-1)		
Viscosity, kinematic	Not applicable	
Aluminium Hydroxide (21645-51-2)		
Viscosity, kinematic	Not applicable	
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	
	Adverse health effects caused by endocrine disrupting properties	Based on available data, the classification criteria are not met
11.2.2	Other information	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

Not rapidly degradable

Calcium carbonate (471-34-1)

LC50 - Fish [1] > 10000

EC50 - Crustacea [1] > 1000

EC50 72h - Algae [1] > 200 mg/l

Titanium Dioxide (13463-67-7)

LC50 - Fish [1] > 1000 mg/

EC50 - Crustacea [1] > 1000 mg/

EC50 - Other aquatic organisms [1] > 100 mg/l Test organisms (species)

EC50 72h - Algae [1] > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

LOEC (chronic) 5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) ≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2 Persistence and degradability

No additional information available

12.3 Bioaccumulative potential

FIREPRO® Acoustic Intumescent Sealant

Bioaccumulative potential

Not potentially bioaccumulable

Calcium carbonate (471-34-1)

Partition coefficient n-octanol/water (Log Pow) < 1

12.4 Mobility in soil

FIREPRO® Acoustic Intumescent Sealant

Ecology - soil

Product adsorbs onto the soil. Liquid product:
Readily absorbed into soil

12.5 Results of PBT and vPvB assessment

FIREPRO® Acoustic Intumescent Sealant

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

No additional information available

Section 13. Disposal considerations

13.1 Waste treatment methods

Regional legislation (waste)

Disposal must be done according to official regulations

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions

Additional information

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Packaging contaminated by the product: Disposal must be done according to official regulations. Non-contaminated packages may be recycled

European List of Waste (LoW) code

08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

Section 14. Transport information

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

	ADR	IMDG	IATA	ADN	RID
14.1 UN number or ID number	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

No supplementary information available

14.6	Special precautions for user	
	Overland transport	Not applicable
	Transport by sea	Not applicable
	Air transport	Not applicable
	Inland waterway transport	Not applicable
	Rail transport	Not applicable
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

15.1.1 EU-Regulations

REACH Annex XVII (Restriction List)	Contains no REACH substances with Annex XVII restrictions
REACH Annex XIV (Authorisation List)	Contains no REACH Annex XIV substances
REACH Candidate List (SVHC)	Contains no substance on the REACH candidate list
PIC Regulation (Prior Informed Consent)	Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals
POP Regulation (Persistent Organic Pollutants)	Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
Ozone Regulation (1005/2009)	Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer
Explosives Precursors Regulation (2019/1148)	Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors)

15.1.2 National regulations

France

Occupational diseases

Code	Description
RG 65	Eczematiform lesions of allergic mechanism
RG 66	Occupational rhinitis and asthma

Germany

Employment restrictions	Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK)	WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands	
ABM category	Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioaccumulative potential/ toxicity or persistence)
SZW-lijst van kankerverwekkende stoffen	None of the components are listed
SZW-lijst van kankerverwekkende stoffen	None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	None of the components are listed
Denmark	
Danish National Regulations	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product. People who have eczema or allergy to epoxy, may not work with the material The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal
Switzerland	
Storage class (LK)	LK 10/12 - Liquids

15.2	Chemical Safety Assessment	No chemical safety assessment has been carried out for the substance or the mixture by the supplier
------	----------------------------	---

Important note:

- This EU SDS is one of three SDSs for the named product - separate SDSs are provided to meet the regulatory requirements specific to GB, NI and EU;
- The content of this SDS may differ from that of the other SDSs, due to the different regulatory frameworks applicable to GB, NI and EU; and
- The user should refer to the SDS appropriate to the territory they are operating in.

Section 16. Other information

Indication of changes

Section	Section Heading	Change	Comments
1	Identification of the substance /mixture and of the company/ undertaking	1.1 - Modified	Change to trade name
2	Hazards identification	2.1 - Modified	Changes to information relating to the classification of the substance/mixture
2	Hazards identification	2.2 - Added	Inclusion of EUH205 and EUH210 references and other additional information
2	Hazards identification	2.3 - Added	Dust formation hazard
3	Composition/information on ingredients	3.2 - Modified	Inclusion of Isothiazolinones and Titanium Dioxide
4	First aid measures	4.1 - Added	Inclusion of additional information on first aid measures
4	First aid measures	4.2 - Modified	Inclusion of additional information on symptoms and effects
4	First aid measures	4.3 - Added	Inclusion of additional information on treatments
5	Firefighting measures	5.1 - Modified	Further information on extinguishing media
5	Firefighting measures	5.2 - Modified	Inclusion of information on thermal decomposition
5	Firefighting measures	5.3 - Modified	Modified information on firefighting protection
6	Accidental release measures	6.2 - Modified	Updated information on environmental precautions
6	Accidental release measures	6.3 - Modified	Included information on cleaning methods and disposal
6	Accidental release measures	6.4 - Modified	Additional references added
7	Handling and storage	7.1 - Added	Further information on safe handling and hygiene measures
7	Handling and storage	7.2 - Added	Information on incompatible products
8	Exposure controls/personal protection	8.1 - Added	Control parameters added for relevant components
8	Exposure controls/personal protection	8.2 - Modified	Amendments to requirements for personal protective equipment for dust formation.
9	Physical and chemical properties	9.1 - Modified	Updated information on physical and chemical properties
10	Stability and reactivity	10.3 - Modified	Modified information on hazardous reactions
10	Stability and reactivity	10.4 - Modified	Updated information and references
10	Stability and reactivity	10.6 - Modified	Updated information

11	Toxicological information	11.1 - Added	Additional toxicological information added
12	Ecological information	12.1 - Added	Additional ecological information added
12	Ecological information	12.2 - Modified	Modification to information relating to persistence and degradability
12	Ecological information	12.3 - Added	Information on bioaccumulative potential
12	Ecological information	12.4 - Added	Information on mobility in soil
13	Disposal considerations	13.1 - Modified	Additional information provided for waste disposal and recycling
15	Regulatory information	15.1 - Added	Additional regulatory details applied
N/A	N/A	General	Format changes throughout the SDS

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
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Median lethal dose
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit

Abbreviations and acronyms

PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
VPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH205	Contains epoxy constituents. May produce an allergic reaction
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5), reaction mass of 5-chloro 2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction
EUH210	Safety data sheet available on request
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Full text of H- and EUH-statements

Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, Category 1A

Legal disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. USERS SHOULD CHECK FOR AND OBTAIN THE LATEST RELEVANT INFORMATION AND VERIFY SUCH INFORMATION IS CURRENT AND COMPLETE BEFORE PLACING ORDERS FOR ROCKWOOL LIMITED'S PRODUCTS.

This legal disclaimer applies to purchasers and users of ROCKWOOL Limited's products manufactured by or on behalf of ROCKWOOL Limited and its affiliates.

ROCKWOOL Limited, its affiliates, its agents and employees and all persons acting on its or their behalf (collectively "ROCKWOOL"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Usage of the information remains under the sole responsibility of the purchaser and/or user.

ROCKWOOL makes no warranty, representation or guarantee regarding the information contained in the data sheet, the suitability of the products for any particular purposes or the continuing production of any product. To the maximum extent permitted by applicable law, ROCKWOOL disclaims (i) any and all liability arising out of the application, use of any product, misuse or inability to use the product (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Information contained in this data sheet is up-to-date as at the date of issue. As ROCKWOOL Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, ROCKWOOL Limited will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. To the maximum extent permitted by law, ROCKWOOL shall not be liable for any damage resulting from handling the products or from contact with the products.

No express or implied warranties are given other than those implied by law.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of ROCKWOOL. Product names and markings noted herein may be trademarks of their respective owners.