Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

1.1. Product identifier

Arc Proline Silicone

Further trade names

PRSI001, PRSI002,PRSI003,PRSI004, PRSI005, PRSI006, PRSI008, PRSI009, PRSI010, PRSI011

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

Use of the substance/mixture

Barrier (Sealant)

1.3. Details of the supplier of the safety data sheet

Address:	IDA Business & Technology Park Ballynattin, Arklow, Co.Wicklow Ireland. Y14 A370
Telephone:	+353 (0)402 32370
E-mail:	sales@arcbuildingproducts.ie

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Precautionary statements

P102	Keep out of reach of children.

Special labelling of certain mixtures

EUH208	Contains OIT. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Additional advice on labelling

OIT(2-Octyl-2H-isothiazole-3-on) is encapsulated in the mixture and therefore only available in a small amount freely. In a mixture with similar composition there was no hint of a sensitizing effect in the Buehler test (OECD No. 406). A classification of this silicone with GHS 07 / Warning / H317 is not intended.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics			10 - 40 %
	934-956-3		01-2119827000-58	
	Asp. Tox. 1; H304			
17689-77-9	ETA - Ethyltriacetoxysilane			1 - 4 %
	241-677-4		01-2119881778-15	
	Acute Tox. 4, Skin Corr. 1B; H302 H314 EUH071			
26530-20-1	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]			0 - 0,02 %
	247-761-7	613-112-00-5		
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	934-956-3	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics	10 - 40 %
	inhalation: LC50 = > 5266 mg/l (vapours); dermal: LD50 = > 3160 mg/kg; oral: LD50 = > 5000 mg/kg		
17689-77-9	241-677-4	ETA - Ethyltriacetoxysilane	1 - 4 %
	oral: ATE = 500 mg/kg		
26530-20-1	247-761-7	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]	0 - 0,02 %
	inhalation: ATE 0,27 mg/kg (dusts or mists); dermal: ATE 311 mg/kg; oral: ATE 125 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 M acute; H400: M=100 M chron.; H410: M=100		

Further Information

OIT is encapsulated in the mixture and therefore only available in a small amount freely (see section 2.2).

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a doctor if you feel unwell.

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

Irritation to respiratory tract. Conjunctival redness. For a preparation of very similar composition, minor reversible effects were observed but the preparation was not irritant to skin or eyes according to EU criteria. Product releases acetic acid during curing. After curing, product is odourless and indifferent.

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

not applicable

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water spray jet. Foam. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products.

5.3. Advice for firefighters

Use suitable breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Personal protection equipment: see section 8

For non-emergency personnel

No special measures are necessary.

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Take up mechanically. @BS0000000014

For cleaning up

Clean with a cloth immediatly. @BS0000000016

Other information

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8
Disposal: see section 13
Safe handling: see section 7

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure sufficient ventilation.

Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Ensure adequate ventilation of the storage area. Avoid high temperatures or direct sunlight.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection

Hand protection

Recommended glove material: E.g. butyl gloves, nitrile gloves
Recommended glove thickness: > 0,4 mm
Permeation time (maximum wear duration): > 1 h.

Skin protection

Protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

Thermal hazards

not applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid: Paste
Colour:	various
Odour:	characteristic
Odour threshold:	not determined

		Test method
Changes in the physical state		
Melting point/freezing point:	not applicable	
Boiling point or initial boiling point and boiling range:	not determined	
Sublimation point:	not applicable	
Softening point:	not determined	
Flash point:	> 150 °C	DIN ISO 2592
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Auto-ignition temperature:	not determined	

Decomposition temperature:	not determined	
pH-Value:	not applicable	
Viscosity / dynamic:	not determined	
Viscosity / kinematic: (at 40 °C)	> 1000 mm²/s	ISO 3219
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density:	ca. 1,0 g/cm³	

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: No data available

Other safety characteristics

Solvent content: VOC: < 30 g/l
VOC (CH): < 30 g/kg

Further Information

not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

May form hazardous decomposition products when exposed to high temperatures.

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight. Protect from moisture.

10.5. Incompatible materials

Acid. Oxidising agent, strong. Reducing agent, strong. Water.

10.6. Hazardous decomposition products

Hazardous combustion products

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics				
	oral	LD50 > 5000 mg/kg	rat		OECD 401
	dermal	LD50 > 3160 mg/kg	rabbit		OECD 402
	inhalation (4 h) vapour	LC50 > 5266 mg/l			
17689-77-9	ETA - Ethyltriacetoxysilane				
	oral	ATE 500 mg/kg			
26530-20-1	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]				
	oral	ATE 125 mg/kg			
	dermal	ATE 311 mg/kg			
	inhalation dust/mist	ATE 0,27 mg/kg			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Contains OIT. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to humans as it does not meet the criteria set out in section A of Regulation (EU) No 2017/2100

Other information

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics						
	Acute fish toxicity	LL50 mg/l	> 1028	96 h	Scophtalamus maximus		OECD 203
	Acute algae toxicity	ErC50 mg/l	> 10000	72 h	Skeletonema costatum		ISO 10253
	Acute crustacea toxicity	EL50 mg/l	> 3193	48 h	Acartia tonsa		ISO 14669
17689-77-9	ETA - Ethyltriacetoxysilane						
	Acute fish toxicity	LC50 mg/l	102,74	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 mg/l	84,53	48 h	Daphnia magna		
	Algae toxicity	NOEC mg/l	16,98	3 d	Pseudokirchneriella subcapitata		

12.2. Persistence and degradability

Poorly biodegradable.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics			
	OECD 306	74 %	28	
	Leicht biologisch abbaubar			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

practically insoluble

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
No data available

12.7. Other adverse effects

No indication of other harmful effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

After curing, product can be disposed of with domestic or commercial waste. Non-cured material has to be handled as special waste.

List of Wastes Code - contaminated packaging

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Additional information

Biocidal Products Regulation (EU 528/2012):"Contains a biocide: OIT. May produce an allergic reaction."

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,11.

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains OIT. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)