

# Centre Scientifique et Technique du Bâtiment

84 avenue Jean Jaurès CHAMPS-SUR-MARNE F-77447 Marne-la-Vallée Cedex 2 Tél. : (33) 01 64 68 82 82 Fax : (33) 01 60 05 70 37





# European Technical Assessment

# ETA-23/0536 of 12/09/2023

English translation prepared by CSTB – Original version is in French language

### **General Part**

Nom commercial <i>Trade Name</i>	Nullifire FS704 Hybrid Sealant
Famille de produit <i>Product family</i>	Produits de Calfeutrements et de Compartimentage au feu : Joint linéaire et d'étanchéité résistant au feu Fire Stopping and Fire Sealing Products: Linear joint and Gap seals
Titulaire <i>Manufacturer</i>	Tremco CPG UK Limited Coupland Rd, Hindley Green, Wigan WN2 4HT (United Kingdom)
Usine de fabrication Manufacturing plant	Tremco CPG Germany GmbH Traunring 65, 83301 Traunreut (Germany)
Cette évaluation contient This assessment contains	43 pages incluant 39 pages d'annexes qui font partie intégrante de cette évaluation 43 pages including 39 pages of annexes which form an integral part of this assessment
Base de l'ETE Basis of ETA	DEE 350141-00-1106 (Septembre 2017) EAD 350141-00-1106 (September 2017)

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### Specific part

### **1** Technical Description of the product

Nullifire FS704 is defined as a fire-resistant linear static seal, used to reinstate the fire resistance performance where gaps are present between two wall or floor constructions or gaps where wall and floor constructions abut.

Nullifire FS704 is supplied in a 310 ml tube / foil pack and 600 ml sausage foil pack. The sealant is gunned into the aperture in the separating element/elements, to a specified depth using required backing materials, as specified in Annex below.

### 2 Specification of the intended use

Detailed information and data are given in Annexes.

### 2.1 Intended use

The intended use of Nullifire FS704 is to reinstate the fire resistance performance of gaps in and joints in and between flexible wall and rigid wall constructions, gaps in and joints between rigid floor constructions. The specific elements of construction that the system Nullifire FS704 may be used to provide a gap or joint seal in, are as follows:

- a. Partition wall: Partitions must be at least 98 mm thick or be constructed as described in the appendix. They must consist at least of a metal or wooden frame to which 2 × 12,5 mm thick type F plasterboard are fixed on either side. The openings in the partitions must be made in accordance with the provisions described in the tables in this document.
- b. Rigid wall: The wall must be at least 100 mm thick and made of concrete, aerated concrete or concrete blocks with a minimum density of 650 kg/m<sup>3</sup>.
- c. Rigid Floor: The floor must have a minimum thickness of 150 mm and be made of concrete or aerated concrete (including floors consisting of concrete slabs and concrete joists) with a minimum density of 650 kg/m<sup>3</sup>.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

The overall board layers thickness is equal to or greater than that tested. The number of layers is equal to or greater than that tested.

The maximum permitted joint/gap width for system Nullifire FS704 is 50 mm.

The maximum movement capability of system Nullifire FS704 is  $\leq$  7,5% depending upon application.

### 2.2 Use Category

Use scenario: IA1, IA2 ; S/W2

- IA1: Product with direct contact to indoor air.
- IA2: Product with indirect contact to indoor air (e.g., covered products) but possible impact on indoor air.
- S/W2: Product with indirect contact to soil-, ground- and surface water

**Type X:** Nullifire FS704 intended for use in conditions exposed to weathering.

Includes lower categories i.e., Type Y<sub>1</sub>, Y<sub>2</sub>, Z<sub>1</sub> and Z<sub>2</sub>.

The provisions made in this European Technical Assessment are based on an assumed working life of Nullifire FS704 Hybrid Sealant of 25 years provided that the conditions laid down in the product datasheet for the packaging/transport/storage/installation/use/repair are met.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or by the Technical Assessment Body but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

# 3 Performance of the product

# 3.1 Safety in case of fire (BWR2)

Essential Characteristic	Performance
Reaction to fire	No performance assessed
Resistance to fire	Classification according to EN 13501-2 Standard
	Performance declared up to EI 120 See Annex B

# 3.2 Hygiene, health and the environment (BWR3)

Essential Characteristic	Performance	
Content, emission and/or release of dangerous substance	The applicant has submitted a written declaration that Nullifire FS704 does not contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the EGDS - taking into account the installation conditions of the construction product and the release scenarios resulting from there.	
	There may be other requirements applicable to the products falling within its scope (e.g., transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Directive, these requirements need also to be complied with, when and where they apply. Safety Data Sheet see Annex C	
Air permeability	Test result according to EN 1026: Performance declared up to 600 Pa See Annex D	
Water permeability	No performance assessed	

# 3.3 Safety and accessibility in use (BWR4)

Essential Characteristic	Performance
Mechanical resistance and stability	No performance required / applicable to the system
Resistance to impact / movement	No performance required / applicable to the system
Adhesion	Test result according to ISO 9046: Performance declared: Adhesive with Mc < 7,5 %
Durability	Type X: Nullifire FS704 intended for use in conditions exposed to weathering
Movement capability	Test result according to ISO 8339: Performance declared less than 7,5 %
Cycling of perimeter seals for curtains wall	No performance required / applicable to the system
Compression set	No performance required / applicable to the system
Linear expansion on setting	No performance required / applicable to the system

### 3.4 Protection against noise (BWR5)

Essential Characteristic	Performance
Airborne and sound insulation Test result according to EN ISO 10140	
	Performance declared up to 66 dB See Annex E

### 3.5 Energy economy and heat retention (BWR6)

Essential Characteristic	Performance	
Thermal properties	No performance assessed	
Water vapor permeability	No performance assessed	

### 4 Assessment and verification of constancy of performance (AVCP)

According to the Decision 1999/454/EC of the European Commission, the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use	Level or Class	System
Fire Stopping and Fire Sealing Products:	Linear seal for fire compartmentation and/or fire protection or fire performance	Any	1

### 5 Technical details necessary for the implementation of the AVCP system

Technical Details necessary for the implementation of the Assessment and verification of constancy of performance (AVCP) system are laid down in the control plan deposited at Centre Scientifique et Technique du Bâtiment.

The control plan including confidential information, it is not included in the published part of this European Technical Assessment (ETA).

The manufacturer shall, on the basis of a contract, involve a notified body approved in the field of fire stopping and sealing products for issuing the certificate of conformity CE based on the control plan.

The Notified Body shall visit the factory at least twice a year for surveillance of the manufacturer.

Issued at Marne La Vallée, 12/09/2023

The original French version is signed by

Anca Cronopol

Head of Division

### A01: Technical data sheet (1/2)

Note: The Technical data sheet above is given as an indication, only the technical data sheets supplied and/or available on the manufacturer's website are authentic.



#### Product Information

#### Description

FS704 is a non-sagging fire resistant sealant with excellent processing properties. In a reaction with humidity from the air it forms a soft elastic sealant that shows good resistance to light, ageing and weathering. The film formation is approx. 45 minutes. Due to the fast-curing system the depth of curing after the first day is about 2.8 mm. The movement capability (EN 15651-1) is 25 % in normal usage of the building. FS704 is free of phthalates, isocyanates, and silicone. It is compatible to metals and to most construction materials. Contact with bituminous or tar containing surfaces can lead to discoloration.

#### Usage / Purpose

FS704 is suitable for a variety of applications in static linear joints: • Concrete-Timber

- Concrete Concrete
- Steel Steel
- Steel Concrete
- Drywall Drywall
- Drywall- Concrete
- Drywall Steel

• Timber – Timber

See the Performance Table

#### Colours White

Grey

#### Packaging

310 ml cartridges (12 per box) 600 ml sausages (20 per box)

#### Usage Guidelines

Always read SDS, pre-application guidance and relevant application detail prior to application. Ensure the latest documents are downloaded prior to every project commencement. Protective Equipment Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

#### **Necessary Tools**

- Sealant caulking gun
- Sealant profiling tool/spatula
- Masking tape (if decorative finish is

#### required to surrounding substrates)

#### Preparation

- All surfaces must be clean and sound, free from dirt, grease and other contamination.
- Wood, plaster and brick may be damp but not running wet.
- Porous or high gloss surfaces require priming prior to application.
- If a clean line is required on adjoining substrates, masking tape should be used.
- Check specification is suitable for movement, fire rating and gap size required.

#### Application

- S704 is an elastic sealant for joints for interior and exterior application according to EN 15651 part 1, type F-EXT-INT-CC, class 25LM. Long term elastic sealing, when not in a fire situation, of perimeter and movement joints between construction components as well as for other indoor and outdoor movement joints. FS704 is recommended for construction sealing based on ISO EN 11600. It can be used for indoor and outdoor applications. The product is not recommended for bonding. If used on natural stone staining of the edges cannot be excluded.
- Insert required backing material (see performance table on backing materials), oversized to joint width to ensure stability, to provide correct depth of seal.
- Using a sharp knife, cut nozzle of cartridge to bead size and angle required.
- Gun sealant into gap to required depth by applying an even pressure to the trigger.
- Work and tool to a smooth finish immediately with a wet profiling tool or spatula.

#### Coverage

To determine quantity of sealant required, please see the performance table.

For further guidance on application methods, and material requirements, please contact the Tremco CPG Technical Services Department.





#### **Key Benefits Summary**

- Up to 2 hours fire resistance Tested to EN 1366-4
- Up to 25% movement capability normal usage in building: not during fire
- Suitable for flexible walls and rigid walls & floors
- Acoustics up to ---- dB (waiting for testresults)
- Air seal up to ----- Pa (waiting for testresults)

### Nullifire FS704 Hybrid Sealant

Technical data sheet

# A01: Technical data sheet (2/2)

**Technical data sheet** 

Note: Th website nanufacturer's

Fire Besistant Hy	<b>4</b>	<b>Nullifire</b>
Technical information		Smart Protection
Property	Test Method	Result
Composition	lest method	bybrid activity sealant
Acoustic Bating	BS EN ISO 10140-2-2010	waiting for testrecults
Air Permeability	BS EN ISO 1023:2	waiting for testresults
Solids Content		78% to 82%
pH Value		8.2 to 9.5
Specific Gravity		1.50 to 1.56
Viscosity		Thixotropic
Shore A Hardness		~ 30
Touch Dry	at ±20°C	45 minutes
Cure Dete		
Cure Kate	at +20°C	2,8 mm/day
ApplicationTemperature		+5°C- +40°C
Maximum Continuous ServiceTemperature		+70°C
Storage S	Store in dry conditions between +5°C and +2	25°C.
Shelf Life 1	2 months when stored as recommended in	original unopened package
seaiant can only be removed mechanically. Health & Safety Precautions Safety data sheet must be read and understood before use. Technical Service Tremco CPG has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more information, service, advice please call Customer Services	and (b) in any application recommended by Tremco CPG, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.	ensure suitability and compatibility of a elements before installation commence and that compliance can be achieved as required.
Construction Inducts Group www.cpj-europe.com         Tremco CPG UK Limited Coupland Rd, Hindley Green tag WR2 4H1 UK Tel: +44 (0)1942 251400         Cu	stomer Service Unit: 4 (0)1942 251400 hnical Hub: 4 (0)1942 251400	



# B02: Vertical linear joint caulking (Application of two faces on an identical wall)

Note: The application field hereinbelow is established in accordance with the provision of §13 of EN 13664-4:2021-02 and the P-Bref© - CSTB Method.









### Nullifire FS704 Hybrid Sealant

Fire resistance classification





### Nullifire FS704 Hybrid Sealant

Fire resistance classification













### Nullifire FS704 Hybrid Sealant

Fire resistance classification













### Nullifire FS704 Hybrid Sealant

Fire resistance classification







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SECTION 2: Hazards identification         • 2.1 Classification of the substance or mixture         • Classification according to Regulation (EC) No 1272/2008         The product is not classified, according to the GB CLP regulation.         • 2.2 Label elements         • Labelling according to Regulation (EC) No 1272/2008 Void         • Hazard pictograms Void         • Signal word Void         • Hazard statements Void         • Supplemental information:         EUH208 Contains trimethoxyvinylsilane. May produce an allergic reaction.         EUH210 Safety data sheet available on request.         • 2.3 Other hazards         • Results of PBT and vPvB assessment         • PBT: Not applicable.         (Contd. on page 2)	<ul> <li>1.4 Emergency telephone in During office hours tel.: +4 (England/Wales/Scotland), y doctor.</li> </ul>	number: 4 (0) 1942251400. At all other times it is re your local GP/pharmacist (NI), 01 809 2166 (l	ecommended to call NHS 111 ROI), or otherwise to contact a
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.</li> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008 Void</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>Supplemental information: EUH208 Contains trimethoxyvinylsilane. May produce an allergic reaction. EUH210 Safety data sheet available on request.</li> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> </ul>	SECTION 2: Hazards id	lentification	
<ul> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008 Void</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>Supplemental information: EUH208 Contains trimethoxyvinylsilane. May produce an allergic reaction. EUH210 Safety data sheet available on request.</li> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> </ul>	<ul> <li>2.1 Classification of the su</li> <li>Classification according to The product is not classified,</li> </ul>	bstance or mixture Regulation (EC) No 1272/2008 according to the GB CLP regulation.	
• 2.3 Other hazards     • Results of PBT and vPvB assessment     • PBT: Not applicable.     (Contd. on page 2)     GB	<ul> <li>2.2 Label elements</li> <li>Labelling according to Reg</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>Supplemental information: EUH208 Contains trimethoxy</li> <li>EUH210 Safety data short a</li> </ul>	yulation (EC) No 1272/2008 Void	
(Contd. on page 2) GB	• 2.3 Other hazards     • Results of PBT and vPvB a     • PBT: Not applicable.	issessment	
			(Contd. on page 2) GB

Nullifire FS704 Hybrid Sealant

Content, emission and/or release of dangerous substances

Annex C

Note: The Safety Data Sheet (M.SDS) ab	ove is given as an indication, only the Safety Data She manufacturer's website are authentic	eets supplied and/or available on the
Page 2/9	Safety data sheet	Nullifire
acc Printing data 15 05 2023	c. (EC) 1907/2006, as amended by UK SI 2019/758	Smart Protection
Trade name: Nullifire F\$70		Revision: 15.05.2025
	·	(Contd. of page 1)
· vPvB: Not applicable.		(
SECTION 3: Compo	sition/information on ingredients	
<ul> <li>3.2 Mixtures</li> <li>Description: Silane-term</li> </ul>	ninated, hydrocarbon-based polymer with inorganic fillers	
Dangerous component	s:	
CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215	trimethoxyvinylsilane Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Se -52-xxxx H317	0.1-<1% ens. 1B,
EU SVHC see Section 1     GB SVHC see Section 1	5	
Additional information For the wording of the lis While curing the followin Methanol (CAS 67-56-1)	: ted hazard phrases refer to section 16. g substances are formed and released by a reaction with	atmospheric humidity:
SECTION 4: First ai	d measures	
<ul> <li>General information: Take affected persons out into the fresh air.</li> <li>After inhalation: Supply fresh air; consult doctor in case of complaints.</li> <li>After skin contact:         <ul> <li>Remove from the skin using a cloth or paper. Then clean with water and soap.</li> <li>If skin irritation continues, consult a doctor.</li> </ul> </li> <li>After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.</li> <li>After swallowing:         <ul> <li>Rinse out mouth and then drink plenty of water.</li> <li>Do not induce vomiting; call for medical help immediately.</li> <li>Information for doctor: No further relevant information available.</li> <li>4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.</li> <li>4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.</li> </ul> </li> <li>SECTION 5: Firefighting measures</li> </ul>		ien consult a doctor.
		led
SECTION 5: Firefigl 5.1 Extinguishing medi Suitable extinguishing m Use fire extinguishing m CO2, powder or water sy 5.2 Special hazards ari 5.3 Advice for firefighte Protective equipment:	nting measures a agents: ethods suitable to surrounding conditions. oray. Fight larger fires with water spray or alcohol resistant sing from the substance or mixture No further relevant ers Wear self-contained respiratory protective device.	t foam. information available.
		GB
ire FS704 Hybrid Sealant		
ent, emission and/or release of dangerous substances		Annex C

![](_page_34_Figure_2.jpeg)

lote: T	he Safety Data Sheet (M.SDS) above is given as an inc manufacturer's	dication, only the Safety Data She website are authentic	eets supplied and/or available on th
	Page 4/9 Safety acc. (EC) 1907/2006, as	data sheet s amended by UK SI 2019/758	Nullifire Smart Protection
	Printing date 15.05.2023 Version number	r 8 (replaces version 7)	Revision: 15.05.2023
	Trade name: Nullifire FS704		
	<ul> <li>Individual protection measures, such as per General protective and hygienic measures: The usual precautionary measures are to be ad Keep away from foodstuffs, beverages and fee Wash hands before breaks and at the end of w Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.</li> <li>Respiratory protection: Not necessary if room is well-ventilated. Filter AX Use suitable respiratory protective device in cas For further guidance, please refer to HSE HSG53 "Respiratory Protect Hand protection</li> <li>Protective gloves</li> <li>Material of gloves Nitrile rubber, NBR Butyl rubber, BR</li> <li>Penetration time of glove material The exact break through time has to be found of be observed.</li> <li>Eye/face protection Safety glasses</li> <li>Body protection:</li> <li>Protective work clothing</li> </ul>	sonal protective equipment thered to when handling chemicals. d. ork. se of insufficient ventilation. ctive Equipment at work - A Practic	(Contd. of page 3) al Guide". ective gloves and has to
	* SECTION 9: Physical and chemical pr	operties	
	9.1 Information on basic physical and chem	ical properties	
	<ul> <li>Colour:</li> <li>Odour:</li> <li>Melting point/freezing point:</li> <li>Flash point:</li> <li>Solubility</li> <li>water:</li> <li>Vapour pressure at 50 °C:</li> <li>Density and/or relative density</li> <li>Density at 20 °C:</li> </ul>	According to product specific Characteristic Undetermined. >151 °C Immiscible / difficult to mix. 0 hPa 1.56 g/cm³	ation
e FS7	704 Hybrid Sealant		(Contd. on page 5) GB

Note: T	he Safety Data Sheet (M.SDS) above is given as an inc manufacturer's	dication, only the Safety Data She website are authentic	ets supplied and/or available on the
	Page 5/9 Safety acc. (EC) 1907/2006. a	y data sheet s amended by UK SI 2019/758	<b>Nullifire</b> Smart Protection
	Printing date 15.05.2023 Version number	er 8 (replaces version 7)	Revision: 15.05.2023
	Trade name: Nullifire FS704		
			(Contd. of page 4)
	• 9.2 Other information		
	· Appearance:	Pasty	
	Important information on protection of h	nealth	
	and environment, and on safety.		
	• Auto-ignition temperature:	Product is not selfigniting. Product does not present an	explosion bazard
	Solvent content:	r roddet does not present an	expresion nazard.
	• Organic solvents:	0.0 %	
	· VOC (EC)	0.01 %	
	Information with regard to physical ha	azard	
	classes		
	· Explosives · Flammable gases	Void Void	
	Aerosols	Void	
	Oxidising gases	Void	
	· Flammable liquids	Void Void	
	Flammable solids	Void	
	Self-reactive substances and mixtures	Void	
	· Pyrophoric solids	Void	
	Self-heating substances and mixtures	Void	
	<ul> <li>Substances and mixtures, which emit flamm gases in contact with water</li> </ul>	mable Void	
	· Oxidising liquids	Void	
	• Oxidising solids	Void	
	Corrosive to metals	Void	
	Desensitised explosives	Void	
	SECTION 10: Stability and reactivity		
	10.1 Reactivity No further relevant information	n available.	
	10.2 Chemical stability	and the de	
	<ul> <li>Inermal decomposition / conditions to be a No decomposition if used according to specific</li> </ul>	avoided:	
	10.3 Possibility of hazardous reactions No	dangerous reactions known.	
	<ul> <li>10.4 Conditions to avoid No further relevant</li> <li>10.5 Incompatible materials: No further relevant</li> </ul>	information available.	
	10.6 Hazardous decomposition products:	ant mormation available.	
	None if stored according to specifications.	(Contri on page 6)	
			(conta: on page o) GB
ire FS7	704 Hybrid Sealant		
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Note: The Safety Data Sheet (M.SDS) above is given as an indication, only the Safety Da manufacturer's website are authentic	ta Sheets supplied and/or available on the
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Trade name: Nullifire FS704	
Beginning at approx. 150 °C small amounts of formaldehyde are formed by	(Contd. of page 5) an oxidative decomposition.
* SECTION 11: Toxicological information • 11.1 Information on hazard classes as defined in Regulation (EC) No 1 • Acute toxicity Based on available data, the classification criteria are not me	272/2008
LD/LC50 values relevant for classification: CAS: 2768-02-7 trimethoxyvinylsilane	۶۱. 
Inhalative LC50/4 h 16.8 mg/L (rat) Skin corrosion/irritation Based on available data, the classification criteria Serious eye damage/irritation Slight irritation possible. Respiratory or skin sensitisation Based on available data, the classification criteria Germ cell mutagenicity Based on available data, the classification criteria Carcinogenicity Based on available data, the classification criteria are not Reproductive toxicity Based on available data, the classification criteria a STOT-single exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are Not repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on available data, the classification criteria are STOT-repeated exposure Based on availab	are not met. on criteria are not met. are not met. met. e not met. ire not met. a are not met. ot met.
Endocrine disrupting properties     None of the ingredients is listed.	
<ul> <li>SECTION 12: Ecological information</li> <li>12.1 Toxicity</li> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability No further relevant information available.</li> <li>Other information: The product is not biodegradable.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> <li>12.5 Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting propertii</li> <li>12.7 Other adverse effects No further relevant information available.</li> </ul>	ole. es.
SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation Uncured product may not be disposed of together with household waste system. To dispose of, open product containers and let them stand in finished totally (means there is no more smell). After that, waste can be disp	e and may not reach sewage open air until the reaction is posed of as the cured product. (Contd. on page 7) ge
lifire FS704 Hybrid Sealant	
ntent emission and/or release of dangerous substances	- Annex C

lote: The	e Safety Data Sheet (M.SDS) above is given as an manufacture	indication, only the Safety Data Sher's website are authentic	eets supplied and/or available on th
	Page 7/9		Nullifire
	Safe acc. (EC) 1907/2006.	ety data sheet as amended by UK SI 2019/758	Smart Protection
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	Trade name: Nullifire FS704		
	Cured product can be deposited together wi local authorities.	th domestic waste. Observe the speci	(Contd. of page 8) fic related regulations of
	European waste catalogue     08.04.101 waste adhesives and sealants oth	er than those mentioned in 08.04.09	
	Uncleaned packaging:     Recommendation:     Empty packages totally (without drops or     relevant local respectively national regulation	grains, cleaned with a spatula). Ur s re-use or recycling is preferred.	ider observation of the
	SECTION 14: Transport information	1	
	· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
	<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
	· 14.3 Transport hazard class(es)		
	· ADR, ADN, IMDG, IATA · Class	Void	
	· 14.4 Packing group · ADR, IMDG, IATA	Void	
	14.5 Environmental hazards:     Marine pollutant:	No	
	14.6 Special precautions for user	Not applicable.	
	<ul> <li>14.7 Maritime transport in bulk according instruments</li> </ul>	to IMO Not applicable.	
	· UN "Model Regulation":	Void	
	* SECTION 15: Regulatory information	n	
	<ul> <li>15.1 Safety, health and environmental reg HSE EH40/2005 Workplace Exposure Limits Guidance on the classification and assessm "GB- CLP" UK SI 2019 No. 720 The Chemi (Contained Use) (Amendment etc.) (EU Exit "UK- REACH" UK SI 2019 No. 758 The UK I The Endocrine Disruptor Lists I, II, III (www.</li> </ul>	ulations/legislation specific for the s (as amended) ent of waste   Technical Guidance WM cals (Health and Safety) and Genetic ) Regulations 2019 REACH etc. (Amendment etc.) (EU Ex editists.org)	substance or mixture //3 (1st edition 2015) ally Modified Organisms /// Regulations 2019
	and electronic equipment – Annex II	i of the use of certain hazardous si	idstances in electrical
	None of the ingredients is listed.		(Contd. on page 8)
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re FS7(	04 Hybrid Sealant		
ent, emission and/or release of dangerous substances			Annex C

ote: The Safety Data Sheet (M.SDS) above is given as an indication, only the Safety Dat manufacturer's website are authentic	ta Sheets supplied and/or available on th
Page 8/9	Notifica
Safety data sheet	IT58 Smart Protection
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	(Contd. of page 7)
REGULATION (EU) 2019/1148     Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit licensing under Article 5(3))	value for the purpose of
None of the ingredients is listed.	
Annex II - REPORTABLE EXPLOSIVES PRECURSORS  None of the ingredients is listed	
Regulation (EC) No 273/2004 on drug precursors	
None of the ingredients is listed.	
Regulation (EC) No 111/2005 laying down rules for the monitor Community and third countries in drug precursors     None of the ingredients is listed.	ing of trade between the
· National regulations:	
<ul> <li>Other regulations, limitations and prohibitive regulations No further rele</li> <li>Substances of very high concern (SVHC) according to EU REACH, Artic</li> <li>Substances of very high concern (SVHC) according to UK REACH Not a</li> <li>15.2 Chemical safety assessment: A Chemical Safety Assessment has no</li> </ul>	evant information available. cle 57 Not applicable. applicable. t been carried out.
<ul> <li>* SECTION 16: Other information This information is based on our present knowledge. However, this shall n any specific product features and shall not establish a legally valid contractus • Relevant phrases H226 Flammable liquid and vapour. H317 May cause an allergie skin reaction</li> </ul>	not constitute a guarantee for al relationship.
<ul> <li>H332 Harmful if inhaled.</li> <li>Department issuing SDS: Prepared and verified in accordance with Annex II, Part A, 0.2.3. of "UK-F The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019</li> <li>Date of previous version: 10.11.2021</li> <li>Version number of previous version: 7</li> <li>Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (Ev International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent DDS: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative</li> </ul>	REACH" UK SI 2019 No. 758 uropean Agreement Concerning the (Contd. on page 9)
∋ FS704 Hybrid Sealant	
	Annex C

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	Page 9/9 Safety data sheet acc. (EC) 1907/2006, as amended by UK SI 2019/758	Smart Protection	
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	Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Sens. 18: Skin sensitisation – Category 18 • * Data compared to the previous version altered.	(Contd. of page 8)	
ifire FS704	Hybrid Sealant		

# D01: Air permeability

	This is a linear joint caulking consisting of a combustible joint bottom (polyethylene foam) and thickness of <b>Nullifire FS704</b> mastic applied in softwood timber sub-frame:		
Product tested	Overall dim. of the joint bottom:	50 × 25 × 1450 mm (w × d × h)	
	Overall dim. of the sealant:	50 × 10 × 1450 mm (w × d × h)	

**Note:** Testing carried out at 15,8°C and 81,7% RH. The perimeter length of the linear seal was 1,405 m. The overall area was 0,071 m<sup>2</sup>.

Summary of testing procedure		Results	
Positive Pressure in Pa	Leakage in m <sup>3</sup> /h	Leakage in m <sup>3</sup> /h/m	Leakage in m <sup>3</sup> /h/m <sup>2</sup>
50	0,01	0,00	0,05
100	0,03	0,01	0,15
150	0,06	0,02	0,30
200	0,15	0,05	0,75
250	0,73	0,22	3,65
300	1,69	0,52	8,45
450	2,33	0,71	11,65
600	3,10	0,95	15,50

Summary of testing procedure		Results	
Positive Pressure in Pa	Leakage in m <sup>3</sup> /h	Leakage in m <sup>3</sup> /h/m	Leakage in m <sup>3</sup> /h/m <sup>2</sup>
50	0,02	0,01	0,10
100	0,04	0,01	0,20
150	0,06	0,02	0,30
200	0,07	0,02	0,35
250	0,42	0,13	2,10
300	1,84	0,56	9,20
450	2,09	0,64	10,45
600	2,57	0,78	12,85

### Nullifire FS704 Hybrid Sealant

Air permeability

Annex D

![](_page_42_Figure_2.jpeg)