Sealed Air
Product Care

MATERIAL SAFETY DATA SHEET

Issued 2.8.16
Issue 2

SECTION 1 - IDENTIFICATION

Product Family	Polyethylene foam
Product Name	Stratocell® Whisper FR, Stratocell® Whisper UV, Stratocell® Whisper FR S1
Product Description	Closed cell Polyethylene foams with density 25 kg/m³
Manufacturer	Sealed Air S.r.l. Via Europa 20040 Bellusco (Milan) Italy
Emergency Telephone No	+39 (0)396835422
Person to Contact	Federico Cappellari

To contact Sealed Air with your Environmental, Health and Safety questions email info-pack@sealedair.com

SECTION 2 - HAZARD(S) IDENTIFICATION

At higher temperatures than the decomposition temperature, product can produce gases with carbonic oxide.
The product can contain inflammable gas traces.
The material, in fine particles, can cause eye irritation.
The product, if swallowed can cause suffocation.
Melted material can cause burns if in contact with skin.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Family	Plastics
Chemical Name	Low Density Polyethylene foam (LDPE)
Formula	$(C_2H_4)n$
Hazardous Components	Antimony Trioxide (Carc. Cat.3: R40)

COMPOSITION

Ingredients	CAS No.	Wt. %
Polyethylene	9002-88-4	85-100
Hydrocarbon Gas	75-28-5 or 74-98-6	0-10
Fire retardant additive	1309-64-4	< 5

SECTION 4 - FIRST AID MEASURES

Inhalation	In case of inhalation of vapors in the decomposition phase, immediately remove person to fresh air; encourage the person to rest in the half erected-position; loosen any clothing for comfort, but keep person warm. If breathing problems, seek trained medical advice.
Skin Contact	In the event of melted material coming into contact with skin, severe burns could occur. Immediately cool the wound with cold water. Cover the wound with a sterile cloth. Medical assistance is advisable.
Eye Contact	This is a solid and inert product. Remove as like any other foreign body. In case of unsuccessful removal, medical assistance is needed.

Sealed Air
Via Europa 15
20882 Bellusco (MB)
Italia

T: +39 039 68 35 306
E: info-pack@sealedair.com
www.sealedair.com/product-care

Corporate office: Sealed Air Corporation, 2415 Cascade Pointe Boulevard, Charlotte, NC 28208, USA
www.sealedair.com Sealed Air has companies throughout the world.

SECTION 5 - FIRE FIGHTING MEASURES	
Extinguishing Materials	Water, foam, carbon dioxide CO_2, extinguishing powder ABC.
Fire Fighting Instructions	Melted parts usually burn slowly generating hydrocarburical decompositions substances, and with the presence of burning melted material. Spray water to cool surfaces exposed to the fire and to protect personnel. Stop the fire feed. Extinguish the fire by spraying water to cool.
Caution Hazardous Combustion Products	Wear appropriate protective clothing. Emits hydrocarburical mist. A lack of oxygen can produce Carbon Monoxide.
SECTION 6 - ACCIDENTAL RELEASE MEASURES	
Personal Causes Measures	Employ usual working equipment.
Ecological Information	See item 12.
Cleaning and Collecting Consideration	Employ usual working equipment.
SECTION 7 - HANDLING AND STORAGE	
Handling	Keep away from open flame, source of heat, or ignition sources. Employ correct earthing connection to avoid accumulation that can produce sparks (possible ignition source). An appropriate ventilation system is required in premises where: - A fusion process of the material is held - The material is grinded or processed - Any type of high temperature process is held.
Storage	Product must be stored in ventilated areas, as it may contain traces of inflammable gases. Protect the material from direct sunlight as it may accelerate the deterioration process and affect the quality. The material should be kept dry for correct processing (this increases the hazard of static electricity). Stocking Temperature (°C): ambient temperature Transport Temperature (°C): ambient temperature Transport/Storage Pressure (KPa): atmospheric
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION	
Maximum Exposure	Although some of the component of this product may have exposure guidelines, no exposure limits exists for this product would be expected under normal handling conditions due to the physical state of the material.
Personal Protective Equipment	No particular protective equipment required, except regular protection according to the kind of work to be done. During processing of this material adequate ventilation system is required.

Sealed Air
Via Europa 15
20882 Bellusco (MB)
Italia

T: +39 039 68 35 306
E: info-pack@sealedair.com
www.sealedair.com/product-care

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		
Physical State	Foam	
Colour	Natural	
Odour	Odourless	
Melting Point	80-100°C	
Flash Point	340°C (Literature)	
Flammability in Air	N/A	
Ignition Temperature	> 350 °C (Literature)	
Relative Density	Raw Material: Final product:	From 915 Kg/m^3 to 935 Kg/m^3 From 16 Kg/m^3 to 150 Kg/m^3
Water Solubility	Insoluble in water	

SECTION 10 - STABILITY AND REACTIVITY	
Conditions to avoid	Temperatures over 300°C. Follow the suggestions in item 7 about storage.
Materials to Avoid Decomposition Products During Combustion	Strong Oxides. Polymer decomposition products, CO, various hydrocarbons and hydrocarbon oxidation products, such as aldehydes, ketones, formic acid, acetic acid depending on the combustion temperature.

SECTION 11 - TOXICOLOGICAL INFORMATION	
Inhalation	Negligible hazard at ambient temperature. Mist generated at high temperatures can cause irritation to eyes and respiratory system.
Skin Contact	No hazard at ambient temperature (from -18°C to +38°C). Exposure to melted product can cause burns.
Eye Contact	Generated powder can be abrasive for the eyes and cause mechanical irritation.
Ingestion	Minimum toxicity indication (LD_{50} by mouth Mouse >5000 mg/Kg).
Specific Reaction	Additional information available if required.
Repeated Dose Toxicity	Repeated excessive exposures to antimony trioxide may cause lung and liver effects and irritation of mucous membranes. Animals developed cataracts following long-term exposure to antimony trioxide. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.
Chronic Toxicity and carcinogenicity	The data presented are for the following material: antimony trioxide. It has caused cancer in laboratory animals. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

Sealed Air
Via Europa 15
20882 Bellusco (MB)
Italia

T: +39 039 68 35 306
E: info-pack@sealedair.com
www.sealedair.com/product-care

Corporate office: Sealed Air Corporation, 2415 Cascade Pointe Boulevard, Charlotte, NC 28208, USA
www.sealedair.com Sealed Air has companies throughout the world.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	No information existing about environmental hazard of the material.
Mobility	None.
Persistence and Degradability	Very low UV biodegradability.
Bioaccumulative Potential	No information existing about environmental hazard of the material.
Aquatic Toxicity	The material is insoluble in water and no toxicity is expected.

SECTION 13 -DISPOSAL CONSIDERATION

The material can be recycled, the energy recovered via incineration or disposed of in an approved landfill site.

SECTION 14 - TRANSPORT INFORMATION

General Caution	Follow item 7 recommendations about storage. Avoid any ignition source near the product and the trailer. Employ only ventilated transportation means.
Shipping ICAO/IATA	No regulation exists for the shipping of this product. No regulation exists for air transportation of this product.

SECTION 15 - REGULATORY INFORMATION

In conformity with the EEC rules no DOT is required for this product.

Other regulation:
this product contains substance(s) classified as dangerous to health and/or to the environment but which does(do) not contribute to the danger classification and labelling of the material in the form it is placed on the market as the substance(s) is fully encapsulated in the product (Council Directive 67/548/EEC, Annex VI, Article 9.3).

SECTION 16 - OTHER INFORMATION

Risk-phrases in the Composition section
R40 Limited evidence of a carcinogenic effect

Premises where product is processed and stored should be ventilated adequately.
This MSDS has been issued according to the regulation EC 1907/2006.

Sealed Air
Via Europa 15
20882 Bellusco (MB)
Italia

T: +39 039 68 35 306
E: info-pack@sealedair.com
www.sealedair.com/product-care

Corporate office: Sealed Air Corporation, 2415 Cascade Pointe Boulevard, Charlotte, NC 28208, USA
www.sealedair.com Sealed Air has companies throughout the world.

Sealed Air
Product Care

Stratocell® Whisper™ FR

PRODUCT SPECIFICATION SHEET
CLOSED CELL POLYETHYLENE FOAM

Physical Properties	Test Method	Unit	Value
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m^3	25
Compressive Strength Vertical@ 25% Vertical @ 50%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	 7 12
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	 3 7 25
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	< 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire-test-response Characteristics (1) Building & Construction	 ISO 9705 - 1993 AS ISO 9705 - 2003 BRANZ Fire Test FI 5558-TT AS2122.1-1993	 Group Group	 1-S NZBC Verification Method C/VM2 Appendix A 1 NCC Specification C1.10 Test results available upon request
Transportation Automotive Appliances & Electronics	TS EN 45545-2 NF F 16-101 DIN 54837 FMVSS 302 UL94	Class Class - Class Class	On going F1 S3, SR2, ST2 Pass HF1
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m^2	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Thermal Conductivity @ 23°C @ -5°C	ASTM D3575-08 Suffix V ISO 8301	W/mK	 0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	60
VOC Emissions	AFNOR NF EN ISO 16000-9	Class	A+
Recycling	Recycle used uncontaminated Stratocell Whisper™ FR product to minimise landfill.		
MSDS	Available upon request		

(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by this material under actual fire conditions

Sealed Air Australia
Unit 10/3 Burrows Road
St.Peters, NSW, AU 2044
Ph: +61 (02) 9550 7888
Fax: +61 (02) 9550 1962
Web: www.sealedair.com

Sealed Air New Zealand
24 Bancroft Crescent
Glendene, Auckland, NZ 0602
Ph: +11 64 (09) 813 9800
Fax: +11 64 (09) 813 9825
Web: www.sealedair.com

Sealed Air
Product Care

Stratocell® Whisper® UV

PRODUCT SPECIFICATION SHEET
CLOSED CELL POLYETHYLENE FOAM, CFC AND HCFC FREE

Physical Properties	Test Method	Unit	Value
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m³	30
Compressive Strength Vertical @ 25% Vertical @ 50%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	 10 24
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	 3 13 50
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	 < 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire test-response Characteristics (1) Building & Construction	DIN 4102	Class	B2
Thermal Conductivity @ 23°C (73°F) @ -5°C (23 °F)	ASTM D3575-08 Suffix V ISO 8301	W/mK	 0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m²	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	70
VOC Emissions	AFNOR NF EN ISO 16000-9	Class	A+

(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by this material under actual fire conditions

ACCELERATED AGEING TEST REPORTS IN QUV-CHAMBER AVAILABLE UPON REQUEST.

Sealed Air
Telford Way
Kettering NN16 8UN
United Kingdom

T: +44 1536 315700
E: info-pack@sealedair.com
www.sealedair.com/product-care

Corporate office: Sealed Air Corporation, 2415 Cascade Pointe Boulevard, Charlotte, NC 28208, USA
www.sealedair.com Sealed Air has companies throughout the world.

DECLARATION OF CONFORMITY

1. Manufacturer of the building product:
Sealed Air s.r.l., via Europa 15, Bellusco 20882 Italy

2. Name of the building product:
Stratocell ® Whisper™ UV

3. Tested by: **Istituto Giordano, Bellaria-Igea Marina (RN), Italy**
MFPA, Leipzig, Germany
Aidico Istituto Tecnologico de la Construccion, Spain
LAPI, Laboratorio Prevenzione Incendi, Prato, Italy

4. Product in accordance with technical specification and directive:

Sound absorption coefficient of planes absorbers in reverberation room according to EN ISO 354:2003;

Fire behaviour of building products according to DIN 4102-B1;

Sound absorption behaviour under QUV exposition according to EN 10534-2;

Determination of long term water absorption by diffusion according to EN 12088:1999;

5. I hereby declare, with full responsibility, the **Stratocell ® Whisper™ UV** we manufacture in Bellusco to be in accordance with the technical specification indicated in point 4.

6. Place and date of issue: Bellusco, 1st April 2015

7. Person authorized to sign the declaration of conformity on behalf of the manufacturer (name, surname, position).

Plant Manager

.....

Giorgio Morandi

Sealed Air
Product Care

DECLARATION OF PERFORMANCE

according Annex III of the Regulation (EU) No 305/2011

Name of the product

Stratocell ® Whisper™ UV

1. Unique identification code of the product-type:

Stratocell ® Whisper™ UV

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

batch number: see product packaging

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Acoustic absorbing insulation product for construction / building applications

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Stratocell ® Whisper™ UV

Sealed Air s.r.l., via Europa 15, Bellusco, Italy

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

system 4

7. In case of the declaration of performance concerning a construction product covered by an harmonised standard:

not relevant

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

not relevant

Sealed Air
Product Care

9. Declared performance

Physical Properties	Test Method	Unit	Value
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m³	30
Compressive Strength Vertical @ 25% Vertical @ 50%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	10 24
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part I DIN 53577	KPa	3 13 50
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	< 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire test-response Characteristics (1) Building & Construction	DIN 4102	Class	B2
Thermal Conductivity @ 23°C (73°F) @ -5°C (23 °F)	ASTM D3575-08 Suffix V ISO 8301	W/mK	0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m²	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	70

(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by this material under actual fire conditions

ACCELERATED AGEING TEST REPORTS IN QUV-CHAMBER AVAILABLE UPON REQUEST.

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Federico Cappellari
Quality Manager

Giorgio Morandi
Plant Manager

DECLARATION OF CONFORMITY

1. Manufacturer of the building product:
Sealed Air s.r.l., via Europa 15, Bellusco 20882 Italy

2. Name of the building product:
Stratocell ® Whisper™ FR

3. Tested by: **Istituto Giordano, Bellaria-Igea Marina (RN), Italy**
MFPA, Leipzig, Germany
LAPI, Laboratorio Prevenzione Incendi, Prato, Italy

4. Product in accordance with technical specification and directive:

Sound absorption coefficient of absorbers in reverberation room according to EN ISO 354:2003;

Fire behavior of building products according to DIN 4102 and EN 13501-1

Fire behavior of transportation products according to EN 45545-2 and NF F 16-101

Fire behavior of automotive products according to DIN 54837 and FMVSS 302

Determination of long term water absorption by diffusion according to EN 12088:1999;

5. I hereby declare, with full responsibility, the **Stratocell ® Whisper™ FR** we manufacture in Bellusco to be in accordance with the technical specification indicated in point 4.

6. Place and date of issue: Bellusco, 1st April 2015

7. Person authorized to sign the declaration of conformity on behalf of the manufacturer (name, surname, position).

Plant Manager

.....

Giorgio Morandi

DECLARATION OF PERFORMANCE

according Annex III of the Regulation (EU) No 305/2011

Name of the product

Stratocell ® Whisper™ FR

1. Unique identification code of the product-type:

Stratocell ® Whisper™ FR

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

batch number: see product packaging

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Acoustic absorbing insulation product for construction / building , automotive and transportation applications.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Stratocell ® Whisper™ FR

Sealed Air s.r.l., via Europa 15, Bellusco, Italy

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

system 4

7. In case of the declaration of performance concerning a construction product covered by an harmonised standard:

not relevant

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

not relevant

9. Declared performance

Physical Properties	Test Method	Unit	Typical Physical Properties
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m³	25
Compressive Strength Vertical @ 25% Vertical @ 50%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	 7 12
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	 3 7 25
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	< 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire-test-response Characteristics (1) Transportation Automotive Building & Construction	 TS EN 45545-2 NF F 16-101 DIN 54837 FMVSS 302 DIN 4102 EN 13501-1	 Class Class - Class Class	 HL2 for flooring. HL1 for ceiling and wall. F1 S3, SR2, ST2 Pass B1 Class B-s2-d0
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m²	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Thermal Conductivity @ 23°C @ -5°C	ASTM D3575-08 Suffix V ISO 8301	W/mK	 0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	60
VOC Emissions	AFNOR NF EN ISO 16000-9	Class	A+

(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by this material under actual fire conditions.

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

.....
Federico Cappellari
Quality Manager

.....
Giorgio Morandi
Plant Manager