

# Safety Data Sheet



Revision Date 28-Aug-2018  
Version 1.08

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

### 1.1 Product identifier

Product name StainShield Professional

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

Recommended Use Professional Carpet Cleaning

### 1.3 Details of the supplier of the safety data sheet

Supplier Legend Brands Europe  
Chemspec  
22 Plover Close Interchange Park  
Newport Pagnell MK16 9PS, UK  
+44 (0) 1908 611211

For further information, please contact: [sds@legendbrands.com](mailto:sds@legendbrands.com)

### 1.4 Emergency telephone number

Emergency telephone number INFOTRAC 1-800-535-5053 (North America)  
1-352-323-3500 (International)

Europe	112
Austria	+43 1 406 43 43
Belgium	Poison center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI): +358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 Poison Center Nord: +49 551 19240 (24h available English / German)
Ireland	National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566
Iceland	+354 543 2222
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Luxembourg	112
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO): + 47 22 591300
Portugal	Poison Information Center (PT): +351 21 330 3284
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	Poisons Information Center (SV): +46 8 33 12 31
Switzerland	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom	111 / 0300 020 0155

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

**2.2 Label elements**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008  
EUH210 - Safety data sheet available on request

**2.3. Other Hazards**

No information available

### 3. Composition/information on ingredients

**3.1 Substances**

This product is a mixture. Health hazard information is based on its components.

**3.2 Mixtures**

Chemical Name	EC-No	CAS No.	Weight-%	Classification (1272/2008/EC)	REACH Registration Number
Fluoropolymer	-	CHEM-R.1222	2.5 - 10	Eye Irrit. 2 (H319)	no data available
magnesium nitrate	233-826-7	10377-60-3	< 0.1	Ox.Liq 2 (H272) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	01-2119491164-38-XX XX
5-Chloro-2-methyl-4-isothiazolin-3-one	247-500-7	26172-55-4	< 0.1	STOT SE 3 (H335) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318) \par Aquatic Acute 1 (H400)	no data available
2-Methyl-2H-isothiazol-3-one	220-239-6	2682-20-4	< 0.1	STOT SE 3 (H335) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318) Aquatic Acute 1 (H400)	no data available
Ethylene oxide	200-849-9	75-21-8	< 0.1	Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1B (H350) STOT SE 3 (H335) Flam. Gas 1 (H220) Press. Gas	no data available
1,4-DIOXANE	204-661-8	123-91-1	< 0.1	Eye Irrit. 2 (H319) Carc. 2 (H351) STOT SE 3 (H335) Flam. Liq. 2 (H225) (EUH066) (EUH019)	no data available
COPPER(II) NITRATE	221-838-5	3251-23-8	< 0.1	no data available	no data available

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## 4. First Aid Measures

### 4.1 Description of first-aid measures

<b>General advice</b>	When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Use a mild soap if available.
<b>Eye contact</b>	Remove contact lenses, if present. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.
<b>Ingestion</b>	Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

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

<b>Symptoms</b>	No information available.
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### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically.
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## 5. Fire-Fighting Measures

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Use water spray, fog, Carbon dioxide (CO<sub>2</sub>), foam or dry chemical.

#### **Extinguishing media which shall not be used for safety reasons**

High volume water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

#### **Advice for emergency responders**

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system.

### 6.3 Methods and materials for containment and cleaning up

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

See section 8 for more information.

## 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Advice on safe handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from frost.

### 7.3 Specific end uses

#### **Specific use(s)**

No information available

#### **Exposure scenario**

No information available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### **Exposure Limit Values**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4		Skin TWA: 0.05 mg/m <sup>3</sup>				
2-Methyl-2H-isothiazol-3-one 2682-20-4		Skin TWA: 0.05 mg/m <sup>3</sup>				
Ethylene oxide 75-21-8		Skin	TWA: 1 ppm TWA: 1.8 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 1.8 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 1.8 mg/m <sup>3</sup>	TWA: 1 ppm STEL: 5 ppm
1,4-DIOXANE 123-91-1		Skin STEL 40 ppm STEL 146 mg/m <sup>3</sup> TWA: 20 ppm TWA: 73 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> S*	TWA: 10 ppm TWA: 36 mg/m <sup>3</sup> Skin	TWA: 10 ppm TWA: 36 mg/m <sup>3</sup> STEL: 40 ppm STEL: 150 mg/m <sup>3</sup> Skin	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> STEL: 40 ppm STEL: 140 mg/m <sup>3</sup>
COPPER(II) NITRATE 3251-23-8		STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>			TWA: 1 mg/m <sup>3</sup>	
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	TWA: 0.2 mg/m <sup>3</sup>					
2-Methyl-2H-isothiazol-3-one	TWA: 0.2 mg/m <sup>3</sup>					

2682-20-4						
Ethylene oxide 75-21-8	Skin	TWA: 1 ppm TWA: 1.8 mg/m <sup>3</sup> S* Ceiling: 2 ppm Ceiling: 3.6 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 10 mg/m <sup>3</sup> STEL: 15 ppm STEL: 30 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 1.8 mg/m <sup>3</sup>		TWA: 0.84 mg/m <sup>3</sup>
1,4-DIOXANE 123-91-1	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> Skin	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> S* Ceiling: 40 ppm Ceiling: 146 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> STEL: 60 ppm STEL: 219 mg/m <sup>3</sup> Skin	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 73 mg/m <sup>3</sup> TWA: 20 ppm	TWA: 20 mg/m <sup>3</sup>
COPPER(II) NITRATE 3251-23-8	TWA: 0.1 mg/m <sup>3</sup>			TWA: 1 mg/m <sup>3</sup>		
<b>Chemical Name</b>	<b>Norway</b>	<b>Portugal</b>	<b>Spain</b>	<b>Sweden</b>	<b>Switzerland</b>	<b>The United Kingdom</b>
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4					TWA: 0.2 mg/m <sup>3</sup>	
2-Methyl-2H-isothiazol-3-one 2682-20-4					TWA: 0.2 mg/m <sup>3</sup>	
Ethylene oxide 75-21-8	TWA: 1 ppm STEL: 3 ppm	TWA: 1 ppm	TWA: 1 ppm TWA: 1.8 mg/m <sup>3</sup>	LLV: 1 ppm LLV: 2 mg/m <sup>3</sup> S* STV: 5 ppm STV: 9 mg/m <sup>3</sup>	Skin TWA: 1 ppm TWA: 2 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 27.6 mg/m <sup>3</sup> TWA: 5 ppm TWA: 9.2 mg/m <sup>3</sup>
1,4-DIOXANE 123-91-1	TWA: 5 ppm TWA: 18 mg/m <sup>3</sup> Skin STEL: 10 ppm STEL: 36 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 73 mg/m <sup>3</sup>	LLV: 10 ppm LLV: 35 mg/m <sup>3</sup> S* STV: 25 ppm STV: 90 mg/m <sup>3</sup>	Skin STEL: 40 ppm STEL: 144 mg/m <sup>3</sup> TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	STEL: 60 ppm STEL: 219 mg/m <sup>3</sup> TWA: 20 ppm TWA: 73 mg/m <sup>3</sup> Skin
COPPER(II) NITRATE 3251-23-8					STEL: 0.2 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	

TWA: Time weighted average  
 STEL: Short term exposure limit  
 LLV: Exposure Limit Values  
 STV: Short Term Value

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2 Exposure controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Eye/Face Protection** Safety glasses with side-shields.
- Hand Protection** Protective gloves.
- Skin and body protection** Long sleeved clothing.
- Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

**Environmental Exposure Controls** Prevent product from entering drains. Do not allow material to contaminate ground water system.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Opaque
<b>Color</b>	White
<b>Odor</b>	Sweet
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	5.5	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point	Not Applicable	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	1.014 g/cc	
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

### 9.2 Other information

**Volatile organic compounds (VOC) content** No information available

## 10. Stability and Reactivity

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to Avoid

Protect from frost, heat and sunlight.

### 10.5 Incompatible Materials

Metals

### 10.6 Hazardous Decomposition Products

None known.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product Information

The product itself has not been tested.

<b>Inhalation</b>	There are no data available for this product.
<b>Eye contact</b>	There are no data available for this product.
<b>Skin contact</b>	There are no data available for this product.
<b>Ingestion</b>	There are no data available for this product.

##### Unknown Acute Toxicity

- < 1% of the mixture consists of ingredient(s) of unknown toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. Ecological information

### 12.1 Toxicity

7.30206 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Ecotoxicity effects

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
5-Chloro-2-methyl-4-isothiazolin-3-one	EC50: 72 h Pseudokirchneriella subcapitata 0.11 - 0.16 mg/L static EC50: 96 h Pseudokirchneriella	LC50: 96 h Oncorhynchus mykiss 1.6 mg/L semi-static	EC50: 48 h Daphnia magna 4.71 mg/L EC50: 48 h Daphnia magna 0.12 - 0.3 mg/L Flow through EC50:

	subcapitata 0.03 - 0.13 mg/L static		48 h Daphnia magna 0.71 - 0.99 mg/L Static
Ethylene oxide		LC50: 96 h Pimephales promelas 73 - 96 mg/L	LC50: 48 h Daphnia magna 137 - 300 mg/L
1,4-DIOXANE		LC50: 96 h Lepomis macrochirus 10000 mg/L static LC50: 96 h Lepomis macrochirus 10000 mg/L semi-static LC50: 96 h Pimephales promelas 9850 mg/L flow-through LC50: 96 h Pimephales promelas 10306 - 14742 mg/L static LC50: 96 h Pimephales promelas 9850 mg/L	EC50: 48 h water flea 163 mg/L Static

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

Chemical Name	log Pow
5-Chloro-2-methyl-4-isothiazolin-3-one	0.75
Ethylene oxide	-0.3
1,4-DIOXANE	-0.42

**12.4 Mobility in soil****Mobility in soil**

No information available.

**Mobility**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects.**

No adverse effects are expected.

## 13. Disposal Considerations

**13.1 Waste treatment methods****Waste from residues / unused products**

If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Other information**

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

## 14. Transport Information

**ADR****14.1 UN**

Not regulated



<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

**IMDG**

<b>14.1 UN</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code</b>	No information available

**IATA**

<b>14.1 UN</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

**15. Regulatory information**

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

**National regulatory information**  
Germany

Chemical Name	French RG number	Title
Ethylene oxide 75-21-8	RG 66	-
1,4-DIOXANE 123-91-1	RG 84	-

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)  
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	-
<b>DSL</b>	Complies
<b>PICCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>AICS</b>	-

**KECL** -  
**NZIoC** -

**Legend**

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

**15.2 Chemical Safety Assessment**

No information available

**16. Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H319 - Causes serious eye irritation

**Revision Date** 28-Aug-2018

**Revision Note** Not Applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**