



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

SPECTRALOCK PRO PREMIUM GROUT PARTE A 24-S-0025A-0003-M



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M
- Other means of identification:**
- UFI:** 35F0-F0AP-M00J-TKJQ
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant uses: Cobble & Setts Jointing Compound. For professional users only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
- LATICRETE EUROPE SRL
Via Paletti Snc
41051 Castelnovo Rangone - ITALY
Phone: 059535540
info@laticreteeurope.com
https://eu.laticrete.com/
- 1.4 Emergency telephone number:** NHS Direct (UK): +44 0845 46 47
Europe's emergency number: 112
Company number (08:00 - 18:00 CET): (+39) 059 535540

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- CLP Regulation (EC) No 1272/2008:**
- Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
- Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1C: Skin corrosion, Category 1C, H314
Skin Sens. 1: Sensitisation, skin, Category 1, H317
- 2.2 Label elements:**
- CLP Regulation (EC) No 1272/2008:**
- Danger
-
- Hazard statements:**
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Precautionary statements:**
- P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Substances that contribute to the classification**
- Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2'-[1,4-butanediylbis(oxymethylene)]bis[oxirane],4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane]; Amines, polyethylenepoly-, tetraethylenepentamine fraction; Poly[oxy(methyl-1,2-ethanediy)]-,a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-
- UFI:** 35F0-F0AP-M00J-TKJQ
- 2.3 Other hazards:**
- Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**
Non-applicable

- CONTINUED ON NEXT PAGE -



Safety data sheet

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SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)****3.2 Mixture:****Chemical description:** Epoxides**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 180583-06-6 EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2'-(1,4-butanediylbis(oxymethylene)bis[oxirane],4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane] ¹	Self-classified	35 - <50 %
Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning		
CAS: 9046-10-0 EC: 618-561-0 Index: Non-applicable REACH: 01-2119557899-12-XXXX	Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- ¹	Self-classified	2 - <3 %
Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger		
CAS: 90640-66-7 EC: 292-587-7 Index: Non-applicable REACH: 01-2119487290-37-XXXX	Amines, polyethylenepoly-, tetraethylenepentamine fraction ¹	Self-classified	2 - <3 %
Regulation 1272/2008	Acute Tox. 4: H302+H312; Aquatic Chronic 2: H411; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger		
CAS: 872-50-4 EC: 212-828-1 Index: 606-021-00-7 REACH: 01-2119472430-46-XXXX	N-methyl-2-pyrrolidone ¹	ATP ATP09	0,1 - <0,14 %
Regulation 1272/2008	Eye Irrit. 2: H319; Repr. 1B: H360D; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger		

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	% (w/w) >=10: STOT SE 3 - H335

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Amines, polyethylenepoly-, tetraethylenepentamine fraction	1861 mg/kg (ATEi)	1465 mg/kg (ATEi)	Rat
CAS: 90640-66-7			Rabbit
EC: 292-587-7	LC50 inhalation	Non-applicable	

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

- CONTINUED ON NEXT PAGE -



Safety data sheet

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SPECTRALOCK PRO PREMIUM GROUT PARTE A 24-S-0025A-0003-M



SECTION 4: FIRST AID MEASURES (continued)

- 4.2 Most important symptoms and effects, both acute and delayed:**
Acute and delayed effects are indicated in sections 2 and 11.
- 4.3 Indication of any immediate medical attention and special treatment needed:**
Non-applicable

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media:**
Suitable extinguishing media:
Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.
Unsuitable extinguishing media:
Non-applicable
- 5.2 Special hazards arising from the substance or mixture:**
As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
- 5.3 Advice for firefighters:**
Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.
Additional provisions:
Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:**
For non-emergency personnel:
Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.
For emergency responders:
Wear protective equipment. Keep unprotected persons away. See section 8.
- 6.2 Environmental precautions:**
Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.
- 6.3 Methods and material for containment and cleaning up:**
It is recommended:
Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.
- 6.4 Reference to other sections:**
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:**
- A.- General precautions for safe use
Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).
- B.- Technical recommendations for the prevention of fires and explosions
Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation



SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M

SECTION 7: HANDLING AND STORAGE (continued)

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	IOELV (8h)	10 ppm	40 mg/m ³
	IOELV (STEL)	20 ppm	80 mg/m ³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	10,58 mg/m ³	Non-applicable
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,82 mg/m ³	Non-applicable
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,4 mg/m ³	40 mg/m ³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	Oral	Non-applicable	Non-applicable	0,21 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,14 mg/m ³	Non-applicable
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	Oral	Non-applicable	Non-applicable	0,85 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,6 mg/m ³	4,5 mg/m ³

PNEC:

Identification				
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	STP	7,5 mg/L	Fresh water	0,015 mg/L
	Soil	0,018 mg/kg	Marine water	0,014 mg/L
	Intermittent	0,15 mg/L	Sediment (Fresh water)	0,132 mg/kg
	Oral	0,00693 g/kg	Sediment (Marine water)	0,125 mg/kg

- CONTINUED ON NEXT PAGE -



Safety data sheet

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SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	STP	4,6 mg/L	Fresh water	0,01 mg/L
	Soil	2,5 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,068 mg/L	Sediment (Fresh water)	3,198 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,32 mg/kg
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	STP	10 mg/L	Fresh water	0,25 mg/L
	Soil	0,07 mg/kg	Marine water	0,025 mg/L
	Intermittent	5 mg/L	Sediment (Fresh water)	1,09 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,109 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Chemical protective gloves (Material: Polyethylene, Breakthrough time: > 480 min)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

- CONTINUED ON NEXT PAGE -



Safety data sheet

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SPECTRALOCK PRO PREMIUM GROUT PARTE A 24-S-0025A-0003-M



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	49,92 % weight
V.O.C. density at 20 °C:	529,76 kg/m ³ (529,76 g/L)
Average carbon number:	4,96
Average molecular weight:	98,54 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Viscous
Colour:	Amber
Odour:	Aminic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	>100 °C
Vapour pressure at 20 °C:	2349 Pa
Vapour pressure at 50 °C:	12375,22 Pa (12,38 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1061,2 kg/m ³
Relative density at 20 °C:	1,061
Dynamic viscosity at 20 °C:	2794 cP
Kinematic viscosity at 20 °C:	2705 mm ² /s
Kinematic viscosity at 40 °C:	>20,5 mm ² /s
Concentration:	Non-applicable *
pH:	9 - 11
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Water miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	330 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Particle characteristics:

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



Safety data sheet

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SPECTRALOCK PRO PREMIUM GROUT PARTE A 24-S-0025A-0003-M



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable components: Non-applicable *

Other safety characteristics:

Surface tension at 20 °C: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

- CONTINUED ON NEXT PAGE -



Safety data sheet

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SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M



SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2' -[1,4-butenediylbis(oxyethylene)]bis[oxirane],4,4' -(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane] CAS: 180583-06-6 EC: Non-applicable	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	LD50 oral	2885,3 mg/kg	Rat
	LD50 dermal	2979,7 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	LD50 oral	1861 mg/kg (ATEi)	Rat
	LD50 dermal	1465 mg/kg (ATEi)	Rabbit
	LC50 inhalation	Non-applicable	
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rat
	LC50 inhalation	Non-applicable	

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M



SECTION 12: ECOLOGICAL INFORMATION (continued)

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2'-[1,4-butanediylbis(oxyethylene)]bis[oxirane],4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane] CAS: 180583-06-6 EC: Non-applicable	LC50	Non-applicable		
	EC50	1,21 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	LC50	772,14 mg/L (96 h)	N/A	Fish
	EC50	80 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	15 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	LC50	Non-applicable		
	EC50	Non-applicable		
	EC50	6,8 mg/L (72 h)	Selenastrum capricornutum	Algae
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	LC50	832 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	4897 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	500 mg/L (72 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	NOEC	Non-applicable		
	NOEC	12,5 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	BOD5	Non-applicable	Concentration	17,6 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	BOD5	Non-applicable	Concentration	2 mg/L
	COD	Non-applicable	Period	162 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	BOD5	1,09 g O2/g	Concentration	100 mg/L
	COD	1,6 g O2/g	Period	28 days
	BOD5/COD	0,68	% Biodegradable	73 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	BCF	
	Pow Log	1,34
	Potential	
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	BCF	0,23
	Pow Log	-0,46
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7 EC: 292-587-7	Koc	1590	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation



SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
N-methyl-2-pyrrolidone	Koc	Non-applicable	Henry	Non-applicable
CAS: 872-50-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 212-828-1	Surface tension	4,007E-2 N/m (25 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP13 Sensitising, HP8 Corrosive

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



- 14.1 UN number or ID number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2'-[1,4-butanediylbis(oxyethylene)]bis[oxirane],4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane])
- 14.3 Transport hazard class(es):** 8
Labels: 8
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
Special regulations: 274
Tunnel restriction code: E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation



SPECTRALOCK PRO PREMIUM GROUT PARTE A
24-S-0025A-0003-M

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 **UN number or ID number:** UN1760
- 14.2 **UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2'-[1,4-butanediylbis(oxymethylene)]bis[oxirane],4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane])
- 14.3 **Transport hazard class(es):** 8
- Labels: 8
- 14.4 **Packing group:** III
- 14.5 **Marine pollutant:** Yes
- 14.6 **Special precautions for user**
- Special regulations: 274, 223
- EmS Codes: F-A, S-B
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- Segregation group: Non-applicable
- 14.7 **Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



- 14.1 **UN number or ID number:** UN1760
- 14.2 **UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Formaldehyde, polymer with n1-(2-aminoethyl)-n2-[2-[(2-aminoethyl)amino]ethyl]-1,2 ethanediamine,2,2'-[1,4-butanediylbis(oxymethylene)]bis[oxirane],4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane])
- 14.3 **Transport hazard class(es):** 8
- Labels: 8
- 14.4 **Packing group:** III
- 14.5 **Environmental hazards:** Yes
- 14.6 **Special precautions for user**
- Physico-Chemical properties: see section 9
- 14.7 **Maritime transport in bulk according to IMO instruments:** Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): N-methyl-2-pyrrolidone

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200	500

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

SPECTRALOCK PRO PREMIUM GROUT PARTE A 24-S-0025A-0003-M



SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains N-methyl-2-pyrrolidone. 1. | Shall not be placed on the market as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manufacturers, importers and downstream users have included in the relevant chemical safety reports and safety data sheets, Derived No-Effect Levels (DNELs) relating to exposure of workers of 14,4 mg/m³ for exposure by inhalation and 4,8 mg/kg/day for dermal exposure. | 2. | Shall not be manufactured, or used, as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manufacturers and downstream users take the appropriate risk management measures and provide the appropriate operational conditions to ensure that exposure of workers is below the DNELs specified in paragraph 1. | 3. | By way of derogation from paragraphs 1 and 2, the obligations laid down therein shall apply from 9 May 2024 in relation to placing on the market for use, or use, as a solvent or reactant in the process of coating wires.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

- H317: May cause an allergic skin reaction.
- H411: Toxic to aquatic life with long lasting effects.
- H318: Causes serious eye damage.
- H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

- Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
- Eye Dam. 1: H318 - Causes serious eye damage.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Repr. 1B: H360D - May damage the unborn child.
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

- Skin Sens. 1: Calculation method
- Aquatic Chronic 2: Calculation method
- Eye Dam. 1: Calculation method
- Skin Corr. 1C: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

Abbreviations and acronyms:

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

SPECTRALOCK PRO PREMIUM GROUT PARTE A 24-S-0025A-0003-M



SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -