

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

### 1.1. Product identifier

<b>Trade name or designation of the mixture</b>	ENVERGE SucraSeal (4700) - Part B Polyol - Open Cell
<b>Registration number</b>	-
<b>Synonyms</b>	None.
<b>Product code</b>	F4700-OC-UK-500
<b>Issue date</b>	08-December-2023
<b>Version number</b>	01
<b>Revision date</b>	-
<b>Supersedes date</b>	-

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

<b>Identified uses</b>	Component for the manufacture of polyurethane polymers.
<b>Uses advised against</b>	For professional use only. Uses other than the recommended use.

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

<b>Manufacturer/Supplier</b>	Holcim Solutions and Products EMEA BV
<b>Address</b>	Ikaroslaan 75 1930 Zaventem, Belgium ENVERGE™ is a Holcim Solutions and Products US, LLC brand.
<b>Website</b>	envergesprayfoam.com
<b>Email</b>	contactSPF-us@holcim.com
<b>Telephone number</b>	+32 2 711 44 50

**1.4. Emergency telephone number** In case of accident with this product, contact your national emergency phone number, doctor, local hospital emergency services or contact:  
BIG: +32 (0)14 58 45 45

**General emergency** 112 or 999 SDS/Product information may not be available for the Emergency Service.

**Non-emergency medical helpline** 111 SDS/Product information may not be available for the Emergency Service.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 4-Nonylphenol branched, ethoxylated, Dimethylaminoethoxyethanol, N'-[3-(Dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine, N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine), Tris(2-chloro-1-methylethyl) Phosphate

## Hazard pictograms



## Signal word

Danger

## Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P280	Wear protective gloves.

### Response

P310	Immediately call a POISON CENTRE/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 + P364	Take off contaminated clothing and wash it before reuse.

### Storage

Store away from incompatible materials.

### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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## Supplemental information on the label

None.

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Tris(2-chloro-1-methylethyl) Phosphate	10 - 30	13674-84-5 237-158-7	-	-	
<b>Classification:</b> Acute Tox. 4;H302					
4-Nonylphenol branched, ethoxylated	1 - 5	127087-87-0 500-315-8	-	-	
<b>Classification:</b> Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Dam. 1;H318, Aquatic Chronic 2;H411					
Dimethylaminoethoxyethanol	1 - 5	1704-62-7 216-940-1	-	-	
<b>Classification:</b> Acute Tox. 4;H312, Skin Corr. 1B;H314, Eye Dam. 1;H318					
N'-[3-(Dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine	1 - 5	6711-48-4 229-761-9	-	-	
<b>Classification:</b> Acute Tox. 4;H302, Acute Tox. 3;H311, Skin Corr. 1B;H314, Eye Dam. 1;H318					
N,N,N',N'-tetramethyl-2,2'-oxybis(ethyl amine)	1 - 5	3033-62-3 221-220-5	-	-	
<b>Classification:</b> Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 3;H331, Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335, Aquatic Chronic 3;H412					

#### List of abbreviations and symbols that may be used above

#: This substance has workplace exposure limit(s).

#### Composition comments

All concentrations are in percent by weight unless otherwise indicated. The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Skin irritation. May cause redness and pain.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	During fire, gases hazardous to health may be formed such as: Carbon oxides. Nitrogen oxides.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
<b>For emergency responders</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Prevent product from entering drains.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Absorb spillage with suitable absorbent material. Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.
<b>Control banding approach</b>	Not established.

### 8.2. Exposure controls

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Wear approved chemical safety goggles. (EN 166) Face shield is recommended.
<b>Skin protection</b>	
<b>- Hand protection</b>	Wear appropriate chemical resistant gloves. (EN 374) Examples of preferred glove barrier materials include: Butyl rubber. Nitrile butyl rubber (NBR). Neoprene. Suitable gloves can be recommended by the glove supplier.
<b>- Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapour cartridge and full facepiece.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Slightly viscous liquid.
<b>Colour</b>	Light brown.
<b>Odour</b>	Amine.
<b>Odour threshold</b>	Not available.
<b>pH</b>	10
<b>Melting point/freezing point</b>	Not determined.
<b>Initial boiling point and boiling range</b>	Not determined.
<b>Flash point</b>	> 93.33 °C (> 200 °F) Closed cup
<b>Evaporation rate</b>	Not determined.
<b>Flammability (solid, gas)</b>	Will burn if involved in a fire. Not applicable.

## Upper/lower flammability or explosive limits

**Explosive limit - lower (%)** Not determined.

**Explosive limit – upper (%)** Not determined.

**Vapour pressure** Not determined.

**Vapour density** Not determined.

**Relative density** 1.09 (25 °C (77 °F))

## Solubility(ies)

**Solubility (water)** Soluble.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not determined.

**Decomposition temperature** Not determined.

**Viscosity** 183 cps (25 °C (77 °F))

**Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

## 9.2. Other information

**Density** 10.34 lb/gal (25 °C (77 °F))

**VOC** Not determined.

## SECTION 10: Stability and reactivity

**10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** Material is stable under normal conditions.

**10.3. Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**10.5. Incompatible materials** Strong oxidising agents. Isocyanates.

**10.6. Hazardous decomposition products** No hazardous decomposition products are known. In the event of fire: See Section 5.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage.

**Ingestion** Harmful if swallowed.

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Skin irritation. May cause redness and pain.

### 11.1. Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

Components	Species	Test Results
Dimethylaminoethoxyethanol (CAS 1704-62-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	1653 mg/kg
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	> 0.39 mg/l, 4 hours
<b>Oral</b>		
LD50	Rat	2150 - 3830 mg/kg

Components	Species	Test Results
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine) (CAS 3033-62-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	315 mg/kg
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	4 mg/l, 4 hours
<b>Oral</b>		
LD50	Rat	609 - 677 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Mixture versus substance information</b>	No information available.	

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
Dimethylaminoethoxyethanol (CAS 1704-62-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50 Pseudokirchneriella subcapitata	160 mg/l, 72 hours
Crustacea	EC50 Daphnia magna	> 100 mg/l, 48 hours
Fish	LC50 Leuciscus idus	320 mg/l, 96 hours

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine) (CAS 3033-62-3)

<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50 Pseudokirchneriella subcapitata	24 mg/l, 72 hours
Crustacea	EC50 Daphnia magna	102 mg/l, 48 hours
Fish	LC50 Danio rerio	131 mg/l, 96 hours

**12.2. Persistence and degradability** No data is available on the degradability of this product.

### 12.3. Bioaccumulative potential

**Partition coefficient n-octanol/water (log Kow)** Not available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Other adverse effects** No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## SECTION 15: Regulatory information

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

#### Retained direct EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

4-Nonylphenol branched, ethoxylated (CAS 127087-87-0)

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

4-Nonylphenol branched, ethoxylated (CAS 127087-87-0)

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

4-Nonylphenol branched, ethoxylated (CAS 127087-87-0)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

4-Nonylphenol branched, ethoxylated (CAS 127087-87-0)

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

4-Nonylphenol branched, ethoxylated (CAS 127087-87-0)

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered**

4-Nonylphenol branched, ethoxylated (CAS 127087-87-0)

Tris(2-chloro-1-methylethyl) Phosphate (CAS 13674-84-5)

#### Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of abbreviations**

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.

**References**

Workplace Threshold Quantities of Hazardous Chemicals  
IARC Monographs. Overall Evaluation of Carcinogenicity  
ECHA: European Chemical Agency.

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements, which are not written out in full under sections 2 to 15**

H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

Holcim Solutions and Products EMEA BV cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.