

## SAFETY DATA SHEET

# POLY MAX Fix & Seal Express black

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

### 1.1. Product identifier

#### Trade name

POLY MAX Fix & Seal Express black

#### Other names / Synonyms

Unipak POLY MAX Fix & Seal Express black

#### ▼ Product no.

7008036, 7008133

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

#### Relevant identified uses of the substance or mixture

Adhesive

Restricted to professional and industrial use.

#### Uses advised against

None known.

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

#### Company and address

##### **Unipak A/S**

Marktoften 3C

8464 Galten

Denmark

+45 8626 1177

www.unipak.dk

#### E-mail

sales@unipak.dk

#### Revision

17/02/2026

#### SDS Version

1.1

#### Date of previous version

03/02/2026 (1.0)

### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.2. Label elements

### Hazard pictogram(s)

Not applicable.

### Signal word

Not applicable.

### Hazard statement(s)

Not applicable.

### Precautionary statement(s)

#### General

Not applicable.

#### Prevention

Not applicable.

#### Response

Not applicable.

#### Storage

Not applicable.

#### Disposal

Not applicable.

### Hazardous substances

Does not contain any substances required to report

### Additional labelling

EUH208, Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane. May produce an allergic reaction.

## 2.3. Other hazards

During curing methanol (CAS 67-56-1) is produced.

### Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
trimethoxyvinylsilane; trimethoxy(vinyl)silane	CAS No.: 2768-02-7 EC No.: 220-449-8 UK-REACH: Index No.: 014-049-00-0	2,5-10%	Flam. Liq. 3, H226 Skin Sens. 1B, H317 (SCL: 10.00 %) Acute Tox. 4, H332	
3- (trimethoxysilyl)propylamine	CAS No.: 13822-56-5 EC No.: 237-511-5 UK-REACH: Index No.:	1-2,5%	Skin Irrit. 2, H315 Eye Dam. 1, H318	
Bis(2,2,6,6-tetramethyl-4- piperidyl) sebacate	CAS No.: 52829-07-9 EC No.: 258-207-9 UK-REACH: Index No.:	<0.25%	Eye Dam. 1, H318 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

No specific requirements

##### Inhalation

In case of discomfort: bring the person into fresh air.

##### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

##### Eye contact

Remove contact lenses, if present. Flush eyes with plenty of water or salt water (20-30°C) and continue until irritation stops. Normally rinsing for less than 5 minutes is sufficient.

##### Ingestion

Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

##### Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

Some metal oxides

#### 5.3. Advice for firefighters

No specific requirements.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

#### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

No special conditions required.

##### Recommended storage material

Always store in containers of the same material as the original container.

##### Storage conditions

No specific requirements.

##### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Calcium carbonate

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 10(inhalable)/4(respirable)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### DNEL

3-(trimethoxysilyl)propylamine

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	500 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	7.1 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	8 mg/kg bw/day

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	1.8 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	310 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.27 mg/m <sup>3</sup>

Long term – Systemic effects - General population	Oral	180 µg/kg bw/day
trimethoxyvinylsilane; trimethoxy(vinyl)silane		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	7,8 (rat) mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	3.9 (rat) mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	6.7 (rat) mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	18,9 (rabbit) mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	27.6 (rat) mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	0.3 (rat) mg/kg bw/day

#### PNEC

##### 3-(trimethoxysilyl)propylamine

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		500 µg/L
Marine water		50 µg/L
Marine water sediment		180 µg/kg
Sewage treatment plant		810 µg/L
Soil		69 µg/kg

##### Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		3.76 µg/L
Freshwater sediment		5.9 mg/kg
Marine water		380 ng/L
Marine water sediment		590 µg/kg
Sewage treatment plant		1 mg/L
Soil		1.18 mg/kg

##### trimethoxyvinylsilane; trimethoxy(vinyl)silane

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		400 (rat) µg/L
Freshwater sediment		1.5 dry weight (rat) mg/kg
Intermittent release		2,4 (rat) mg/L
Marine water		40 (rat) µg/L
Marine water sediment		150 dry weight (rat) µg/kg
Sewage treatment plant		6,6 (rat) mg/L
Soil		60 (rat) µg/kg

#### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

##### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

##### Exposure scenarios

There are no exposure scenarios implemented for this product.

##### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

Wash hands after use.

#### Measures to avoid environmental exposure

No specific requirements.

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

##### Generally

Use only UKCA marked protective equipment.

##### Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation.			

##### Skin protection

No specific requirements.

##### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	> 0.12	≥ 10	EN374-3, Level 1



##### Eye protection

Work situation	Type	Standards
When there is risk of splash- / intermittent exposure	Safety glasses with side shields.	EN166



## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Black

#### Odour / Odour threshold

Characteristic

#### pH

No data available.

#### Density (g/cm<sup>3</sup>)

No data available.

#### Kinematic viscosity

No data available.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

Melting point/Freezing point (°C)

No data available.

Softening point/range (°C)

Does not apply to liquids.

Boiling point (°C)

No data available.

Vapour pressure

No data available.

Relative vapour density

No data available.

Decomposition temperature (°C)

No data available.

#### Data on fire and explosion hazards

Flash point (°C)

No data available.

Flammability (°C)

The material is not combustible.

Auto-ignition temperature (°C)

No data available.

Lower and upper explosion limit (% v/v)

No data available.

#### Solubility

Solubility in water

Practically insoluble

n-octanol/water coefficient (LogKow)

No data available.

Solubility in fat (g/L)

No data available.

#### 9.2. Other information

VOC (g/l)

0

Oxidizing properties

No data available.

Other physical and chemical parameters

No data available.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

#### ▼ Acute toxicity

Based on available data, the classification criteria are not met.

Product/substance	trimethoxyvinylsilane; trimethoxy(vinyl)silane
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	16,8 mg/L

Product/substance	trimethoxyvinylsilane; trimethoxy(vinyl)silane
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	6899 mg/kg

Product/substance	trimethoxyvinylsilane; trimethoxy(vinyl)silane
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	3158 mg/kg

Product/substance	3-(trimethoxysilyl)propylamine
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3030 mg/kg

Product/substance	3-(trimethoxysilyl)propylamine
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	10000 mg/kg

Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3700 mg/kg

Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 3170 mg/kg

Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	7,7 mg/L

Based on available data, the classification criteria are not met.

#### ▼ Skin corrosion/irritation

Product/substance	trimethoxyvinylsilane; trimethoxy(vinyl)silane
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Species: Mouse  
 Result: No adverse effect observed (Not irritating)

Based on available data, the classification criteria are not met.

#### ▼ Serious eye damage/irritation

Product/substance 3-(trimethoxysilyl)propylamine  
 Test method: OECD 437  
 Result: No adverse effect observed (Not irritating)

Based on available data, the classification criteria are not met.

#### ▼ Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

This product contains substances that may trigger an allergic reaction in already sensitized persons.

#### ▼ Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### ▼ Carcinogenicity

Based on available data, the classification criteria are not met.

#### ▼ Reproductive toxicity

Based on available data, the classification criteria are not met.

#### ▼ STOT-single exposure

Based on available data, the classification criteria are not met.

#### ▼ STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### ▼ Aspiration hazard

Based on available data, the classification criteria are not met.

#### Symptoms related to the physical, chemical and toxicological characteristics

None known.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### Other information

None known.

## SECTION 12: Ecological information

#### 12.1. ▼ Toxicity

Based on available data, the classification criteria are not met.

#### 12.2. ▼ Persistence and degradability

Based on available data, the classification criteria are not met.

#### 12.3. ▼ Bioaccumulative potential

Based on available data, the classification criteria are not met.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

## SECTION 13: Disposal considerations

### Waste treatment methods

Product is not covered by regulations on dangerous waste.  
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR/ADN/RID	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

Industrial use only.

#### Demands for specific education

No specific requirements.

#### Control of Major Accident Hazards (COMAH) - Categories / dangerous substances

Not applicable.

#### UK-REACH, Annex XVII

trimethoxyvinylsilane; trimethoxy(vinyl)silane is subject to UK-REACH restrictions (entry 40).

#### Additional information

Not applicable.

#### Sources

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H332, Harmful if inhaled.  
H361f, Suspected of damaging fertility.  
H400, Very toxic to aquatic life.  
H411, Toxic to aquatic life with long lasting effects.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### Additional information

Not applicable.

[The safety data sheet is validated by](#)

THA

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en