

## SAFETY DATA SHEET

## SMP LIQUID MOISTURE BARRIER 1.0

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

## 1.1. Product identifier

## Trade name

SMP LIQUID MOISTURE BARRIER 1.0

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

## ▼ Relevant identified uses of the substance or mixture

Moisture barrier for concrete.

## Uses advised against

None known.

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

## Company and address

**Junckers Industrier A/S**

Vaerftsvej 4

4600 Koege

Denmark

Tel. +45 70 80 30 00

## Importer

**Junckers Ltd.**

Warren Park, 5 Warren Yard, Wolverton Mill

Milton Keynes MK12 5NW

Tel. 0 1376 534 700

## E-mail

productsafety@junckers.dk

## Revision

04/02/2025

## SDS Version

1.1

## Date of previous version

28/11/2024 (1.0)

## 1.4. Emergency telephone number

National Poisons Information Service (NPIS): Call 111 (24 h service).

See section 4 for 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

-

Prevention

-

**Response**

-

**Storage**

-

**Disposal**

-

**Hazardous substances**

None known.

**Additional labelling**

EUH208, Contains Trimethoxyvinylsilane. May produce an allergic reaction.

EUH210, Safety data sheet available on request.

**2.3. Other hazards**

The product hydrolyses under formation of methanol. Methanol is classified in terms of both physical and health hazards. The hydrolysis rate and thus the relevance to the hazard profile of the product is highly dependent on the specific conditions.

**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
3-(Trimethoxysilyl)propylamine	CAS No.: 13822-56-5 EC No.: 237-511-5 UK-REACH: Index No.:	3-5%	Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 10.00 %)	
Trimethoxyphenylsilane	CAS No.: 2996-92-1 EC No.: 221-066-9 UK-REACH: Index No.:	1-3%	Flam. Liq. 3, H226 Acute Tox. 4, H302 (ATE: 1049.00 mg/kg) STOT RE 2, H373 (Bladder, Kidney) (Oral)	
Trimethoxyvinylsilane	CAS No.: 2768-02-7 EC No.: 220-449-8 UK-REACH: Index No.: 014-049-00-0	<1%	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Acute Tox. 4, H332 (ATE: 16.80 mg/L)	
Methyl[N-(dimethoxymethyl)-silylmethyl]carbamate	CAS No.: 23432-65-7 EC No.: 457-690-5 UK-REACH: Index No.:	<1%	Repr. 2, H361fd	

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

**Other information**

-

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an

unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### 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

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### 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>)

#### 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

Use sand, sawdust, soil, vermiculite or similar to collect liquid material. Subsequently, place in a suitable waste container.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

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

#### Storage conditions

Store in cool, dry conditions in well sealed receptacles.

#### 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

Methanol (is formed in small quantities upon curing)

Long term exposure limit (8 hours) (ppm): 200

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 266

Short term exposure limit (15 minutes) (ppm): 250

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 333

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

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	0,5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1,7 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	7,1 mg/m <sup>3</sup>

Methyl[N-(dimethoxymethyl)-silylmethyl]carbamate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	55,6 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	0,156 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	0,19 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1,1 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	55,6 µg/kg bw/day

Trimethoxyphenylsilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	4 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	4 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	20 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	20 mg/kg bw/day
Long term – Local effects - General population	Inhalation	26 mg/m <sup>3</sup>

Long term – Local effects - Workers	Inhalation	130 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	26 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	130 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	26 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	130 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	26400 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	130 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	4 mg/kg bw/day
Short term – Systemic effects - General population	Oral	4 mg/kg bw/day

#### Trimethoxyvinylsilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	0,63 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	0,91 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	6,8 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	27,6 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	54,4 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	73,6 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	0,63 mg/kg bw/day

#### PNEC

##### 3-(Trimethoxysilyl)propylamine

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,5 mg/l
Freshwater sediment		1,8 mg/kg dw
Intermittent release (freshwater)		2,05 mg/l
Marine water		0,05 mg/l
Marine water sediment		0,18 mg/kg dw
Predators		11,1 mg/kg
Sewage treatment plant		0,81 mg/l
Soil		0,069 mg/kg dw

#### 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

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

##### 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

No specific requirements

#### Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn	-	-



#### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Butyl	0,3	> 480	EN374-2, EN374-3, EN388
Nitrile	0,4	> 480	EN374-2, EN374-3, EN388



#### Eye protection

Type	Standards
Safety glasses	EN166



## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Colourless

#### Odour / Odour threshold

Faint

#### pH

No relevant or available data due to the nature of the product.

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

1,13

#### Kinematic viscosity

No relevant or available data due to the nature of the product.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### Melting point/Freezing point (°C)

No relevant or available data due to the nature of the product.

##### Softening point/range (°C)

Does not apply to liquids.

##### Boiling point (°C)

No relevant or available data due to the nature of the product.

##### Vapour pressure

No relevant or available data due to the nature of the product.

##### Relative vapour density

No relevant or available data due to the nature of the product.

##### Decomposition temperature (°C)

No relevant or available data due to the nature of the product.

#### Data on fire and explosion hazards

#### Flash point (°C)

No relevant or available data due to the nature of the product.

#### Flammability (°C)

No relevant or available data due to the nature of the product.

#### Auto-ignition temperature (°C)

No relevant or available data due to the nature of the product.

#### Lower and upper explosion limit (% v/v)

No relevant or available data due to the nature of the product.

### Solubility

#### Solubility in water

Insoluble

#### n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

#### Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

### 9.2. Other information

#### Oxidizing properties

No relevant or available data due to the nature of the product.

#### 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

Product/substance	Trimethoxyphenylsilane
Test method:	OECD 425
Species:	Rat, female
Route of exposure:	Oral
Test:	LD50
Result:	1049 mg/kg

Product/substance	Trimethoxyvinylsilane
Test method:	OECD 403
Species:	Rat, Fischer 344, male/female
Route of exposure:	Inhalation
Test:	LC50
Result:	16,8 mg/l

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

Test: Mixtures which contained amino functional silane or siloxane compounds with the hazard potential "serious eye damage, category 1, H318" at concentrations from 1-5 % together with (silicone) polymer and filler, did neither in vitro nor in vivo show an eye irritation potential relevant for classification.

#### 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.

#### 11.2. Information on other hazards

##### Long term effects

None known.

##### 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

No data available.

#### 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

None known.

## 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	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to ADR, 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**

No special.

**Demands for specific education**

No specific requirements.

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

Methanol (is formed in small quantities upon curing)

**UK-REACH, Annex XVII**

Trimethoxyphenylsilane is subject to UK-REACH restrictions (entry 40).

Trimethoxyvinylsilane is subject to UK-REACH restrictions (entry 40).

**Additional information**

EMICODE: EC 1 PLUS - very low emission PLUS.

**Sources**

Control of Major Accident Hazards (COMAH) Regulations 2015.

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.

H302, Harmful if swallowed.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H332, Harmful if inhaled.

H361fd, Suspected of damaging fertility or the unborn child.

H373, May cause damage to organs through prolonged or repeated exposure. (Bladder, Kidney) (Oral)

**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  
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 = CLP-specific hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of classification and labelling of chemicals  
IARC = International Agency for Research on Cancer  
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  
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 = 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  
UVCB = Substances of Unknown or Variable composition, Complex reaction products or Biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and very Bioaccumulative

#### Additional information

Not applicable.

#### The safety data sheet is validated by

ULS

#### 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