

## SAFETY DATA SHEET

## Liquid Moisture Barrier

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

## 1.1. Product identifier

## Trade name

Liquid Moisture Barrier

## Unique formula identifier (UFI)

9F30-NOV2-W00U-9G51

## 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.

Restricted to professional users.

## ▼ 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

07/05/2024

## SDS Version

7.0

## Date of previous version

25/09/2023 (6.0)

## 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

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

Acute Tox. 4; H332, Harmful if inhaled.

Resp. Sens. 1; H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 3; H335, May cause respiratory irritation.

Carc. 2; H351, Suspected of causing cancer.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

## 2.2. Label elements

## Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

Causes skin irritation. (H315)  
 May cause an allergic skin reaction. (H317)  
 Causes serious eye irritation. (H319)  
 Harmful if inhaled. (H332)  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)  
 May cause respiratory irritation. (H335)  
 Suspected of causing cancer. (H351)  
 May cause damage to organs through prolonged or repeated exposure. (H373)

#### Precautionary statement(s)

##### General

-

##### Prevention

Do not breathe vapour. (P260)  
 Wear eye protection/protective gloves/protective clothing. (P280)  
 [In case of inadequate ventilation] wear respiratory protection. (P284)

##### Response

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)  
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor (P342+P311)

##### Storage

-

##### Disposal

-

#### ▼ Hazardous substances

4,4'-Methylenediphenyl diisocyanate  
 2,4'-Methylenediphenyl diisocyanate  
 Diphenylmethane diisocyanate, isomers and homologues  
 2,2'-Methylenediphenyl diisocyanate

#### Additional labelling

As from 24 August 2023 adequate training is required before industrial or professional use.  
 UFI: 9F30-N0V2-W00U-9G51

### 2.3. Other hazards

#### ▼ 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) 2018/605.

## 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
4,4'-Methylenediphenyl diisocyanate	CAS No.: 101-68-8 EC No.: 202-966-0 UK-REACH: Index No.: 615-005-00-9	25-40%	Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Acute Tox. 4, H332 Resp. Sens. 1, H334 (SCL: 0.10 %) STOT SE 3, H335 (SCL: 5.00 %) Carc. 2, H351 STOT RE 2, H373 (Inhalation)	[3]

Prepolymer based on aromatic polyisocyanate	CAS No.: 67815-87-6 EC No.: 642-899-8 UK-REACH: Index No.:	25-40%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 STOT RE 2, H373	
2,4'-Methylenediphenyl diisocyanate	CAS No.: 5873-54-1 EC No.: 227-534-9 UK-REACH: Index No.: 615-005-00-9	15-25%	Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Acute Tox. 4, H332 Resp. Sens. 1, H334 (SCL: 0.10 %) STOT SE 3, H335 (SCL: 5.00 %) Carc. 2, H351 STOT RE 2, H373 (Inhalation)	[3]
Diphenylmethane diisocyanate, isomers and homologues	CAS No.: 9016-87-9 EC No.: 618-498-9 UK-REACH: Index No.:	3-5%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (Inhalation)	
2,2'-Methylenediphenyl diisocyanate	CAS No.: 2536-05-2 EC No.: 219-799-4 UK-REACH: Index No.: 615-005-00-9	3-5%	Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Acute Tox. 4, H332 Resp. Sens. 1, H334 (SCL: 0.10 %) STOT SE 3, H335 (SCL: 5.00 %) Carc. 2, H351 STOT RE 2, H373 (Inhalation)	[3]

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

#### Other information

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

### 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 injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

##### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

##### Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and

continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. 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

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

#### 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

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

#### 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

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.  
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 temperature

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

##### 4,4'-Methylenediphenyl diisocyanate

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 0.02

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 0.07

Annotations:

Sen = Capable of causing occupational asthma.

##### 2,4'-Methylenediphenyl diisocyanate

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 0.02

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 0.07

Annotations:

Sen = Capable of causing occupational asthma.

##### 2,2'-Methylenediphenyl diisocyanate

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 0.02

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 0.07

Annotations:

Sen = Capable of causing occupational asthma.

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

##### 2,2'-Methylenediphenyl diisocyanate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	0,025 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	0,05 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	0,05 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	0,1 mg/m <sup>3</sup>

##### 2,4'-Methylenediphenyl diisocyanate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	0,025 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	0,05 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	0,05 m/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	0,1 mg/m <sup>3</sup>

##### 4,4'-Methylenediphenyl diisocyanate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	0,025 mg/m <sup>3</sup>

Long term – Local effects - Workers	Inhalation	0,05 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	0,05 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	0,1 mg/m <sup>3</sup>

#### PNEC

##### 2,2'-Methylenediphenyl diisocyanate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1 mg/l
Intermittent release (freshwater)		10 mg/l
Marine water		0,1 mg/l
Sewage treatment plant		1 mg/l
Soil		1 mg/kg dw

##### 2,4'-Methylenediphenyl diisocyanate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1 mg/l
Intermittent release (freshwater)		10 mg/l
Marine water		0,1 mg/l
Sewage treatment plant		1 mg/l
Soil		1 mg/kg dw

##### 4,4'-Methylenediphenyl diisocyanate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1 mg/l
Intermittent release (freshwater)		10 mg/l
Marine water		0,1 mg/l
Sewage treatment plant		1 mg/l
Soil		1 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

Do not recirculate outlet air that contain the substances.

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

Take off contaminated clothing and wash it before reuse.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

### Generally

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (e.g. type A1 according to standard EN 14387) is used. Use only UKCA marked protective equipment.

### Respiratory Equipment

Work situation	Type	Class	Colour	Standards
In case of insufficient ventilation	Gas filter A	2 (medium capacity)	Brown	EN14387



### Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-



### Hand protection

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



### Eye protection

Type	Standards
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

Amber

#### Odour / Odour threshold

Faint

#### pH

Testing not relevant or not possible due to the nature of the product.

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

1,18

#### Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

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

Testing not relevant or not possible due to the nature of the product.

##### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

##### Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

##### Vapour pressure

Testing not relevant or not possible due to the nature of the product.

##### Relative vapour density

Testing not relevant or not possible due to the nature of the product.

##### Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

#### Data on fire and explosion hazards

##### Flash point (°C)

110

##### Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

##### Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

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

Testing not relevant or not possible due to the nature of the product.

#### Solubility

##### Solubility in water

Testing not relevant or not possible due to the nature of the product.

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

Testing not relevant or not possible due to the nature of the product.

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

Testing not relevant or not possible due to the nature of the product.

#### 9.2. Other information

##### Oxidizing properties

Testing not relevant or not possible 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

The product is not degraded when used as specified in section 1.

### 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

Harmful if inhaled.

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye irritation.

##### Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### Skin sensitisation

May cause an allergic skin reaction.

##### Germ cell mutagenicity

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

##### Carcinogenicity

Suspected of causing cancer.

##### Reproductive toxicity

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

##### STOT-single exposure



May cause respiratory irritation.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

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

### 11.2. Information on other hazards

#### Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### ▼ Endocrine disrupting properties

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

#### Other information

4,4'-Methylenediphenyl diisocyanate has been classified by IARC as a group 3 carcinogen.

Diphenylmethane diisocyanate, isomers and homologues has been classified by IARC as a group 3 carcinogen.

## 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 covered by the regulations on hazardous waste. (\*)

HP 4 - Irritant (skin irritation and eye damage)

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 6 - Acute toxicity

HP 7 - Carcinogenic

HP 13 - Sensitising

Dispose of contents/container to an approved waste disposal plant.

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

#### EWC code

08 05 01\* Waste isocyanates

#### 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 information:
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**

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education**

Use of this product requires dedicated training in work with polyurethane and epoxy products.

**SEVESO - Categories / dangerous substances**

Not applicable.

**UK-REACH, Annex XVII**

4,4'-Methylenediphenyl diisocyanate is subject to restrictions, UK-REACH annex XVII (entry 56 ; 74).

2,4'-Methylenediphenyl diisocyanate is subject to restrictions, UK-REACH annex XVII (entry 56 ; 74).

2,2'-Methylenediphenyl diisocyanate is subject to restrictions, UK-REACH annex XVII (entry 56 ; 74).

**▼ Additional information**

EMICODE: EC 1 PLUS - very low emission PLUS.

**Sources**

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

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**

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335, May cause respiratory irritation.

H351, Suspected of causing cancer.

H373, May cause damage to organs through prolonged or repeated exposure. (Inhalation)

H373, May cause damage to organs through prolonged or repeated exposure.

**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

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### ▼ 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