



# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. A

Revision date: 16.05.2024

Page 2 of 10

P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (--> UK REACH)

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
616-47-7	1-Methylimidazole			< 3 %
	210-484-7		01-2119979544-23	
	Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B; H311 H302 H314			
68928-76-7	Dimethyltinneodecanoate			< 1 %
	273-028-6		01-2120770324-57	
	Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H302 H315 H317 H412			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
616-47-7	210-484-7	1-Methylimidazole	< 3 %
	dermal: LD50 = 400 - 640 mg/kg; oral: LD50 = 1144 mg/kg		
68928-76-7	273-028-6	Dimethyltinneodecanoate	< 1 %
	oral: LD50 = 892 mg/kg		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. A**

Revision date: 16.05.2024

Page 3 of 10

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

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.

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

- Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

- Foam
- Extinguishing powder
- Water spray jet
- Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

- Full water jet

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

- Pyrolysis products, toxic
- Carbon monoxide

**5.3. Advice for firefighters**

- In case of fire: Wear self-contained breathing apparatus. Full protection suit. In case of fire and/or explosion do not breathe fumes.

**Additional information**

- Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
- Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

- Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions**

- Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

- Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand
- Treat the recovered material as prescribed in the section on waste disposal.
- Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

- Use only outdoors or in a well-ventilated area.
- Wear personal protection equipment (refer to section 8).

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. A**

Revision date: 16.05.2024

Page 4 of 10

Avoid contact with skin, eyes and clothes.  
When using do not eat, drink or smoke.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.  
Wash hands thoroughly after handling. When using do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a place accessible by authorized persons only. Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

storage temperature: 5 - 25°C

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

Adhesive mortar for fastening elements A-component (resin)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye protection/face protection. Wear safety glasses.

**Hand protection**

Disposable gloves  
Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: > 0,2 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. A

Revision date: 16.05.2024

Page 5 of 10

### SECTION 9: Physical and chemical properties

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

Physical state:	solid (pasty)	
Colour:	light beige	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		Non-flammable.
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		No data available
pH-Value:		The study does not need to be conducted because the substance is known to be insoluble in water.
Viscosity / kinematic:		not applicable
Water solubility:		The study does not need to be conducted because the substance is known to be insoluble in water.
Solubility in other solvents		No data available
Partition coefficient n-octanol/water:		not applicable
Vapour pressure:		No data available
Density (at 20 °C):		1,09 g/cm <sup>3</sup>
Relative vapour density:		not applicable
Particle characteristics:		No data available

#### 9.2. Other information

##### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive.

##### Self-ignition temperature

Solid:

not applicable

##### Oxidizing properties

Not oxidising.

##### Other safety characteristics

Evaporation rate:

No data available

Solid content:

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Response: Oxidising agent, strong

## Safety Data Sheet

according to UK REACH Regulation

### Liquix SOS, Comp. A

Revision date: 16.05.2024

Page 6 of 10

#### 10.4. Conditions to avoid

Humidity

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
616-47-7	1-Methylimidazole				
	oral	LD50 mg/kg	1144	Rat	
	dermal	LD50 mg/kg	400 - 640	Rabbit	
68928-76-7	Dimethyltinneodecanoate				
	oral	LD50 mg/kg	892	Rat	OECD 401

##### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

##### Sensitising effects

May cause an allergic skin reaction. (Dimethyltinneodecanoate)

##### Carcinogenic/mutagenic/toxic effects for reproduction

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

##### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. A

Revision date: 16.05.2024

Page 7 of 10

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
616-47-7	1-Methylimidazole					
	Acute fish toxicity	LC50 > 100 - < 215 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 202 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 268 mg/l	48 h	Daphnia magna (Big water flea)		
68928-76-7	Dimethyltinneodecanoate					
	Acute algae toxicity	ErC50 7,6 mg/l		Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 39 mg/l	48 h	Daphnia magna (Big water flea)		

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
616-47-7	1-Methylimidazole			
	OECD 302B	0 -12	20	
68928-76-7	Dimethyltinneodecanoate			
	OECD 301B	0	28	

### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
616-47-7	1-Methylimidazole	-0,19
68928-76-7	Dimethyltinneodecanoate	5,503

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. A**

Revision date: 16.05.2024

Page 8 of 10

allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**



# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. A

Revision date: 16.05.2024

Page 9 of 10

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

VOC content: 1,0 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
 Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms**

- ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
- ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- CAS: Chemical Abstracts Service
- CLP: Classification, Labeling and Packaging
- DMEL: Derived Minimal Effect level
- DNEL: Derived No Effect Level
- EC50: Effective concentration, 50%
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)
- ICAO: International Civil Aviation Organization
- IC50: Inhibitory concentration, 50%
- IMDG: International Maritime Code for Dangerous Goods
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- NOEC: No Observed Effect Concentration
- OECD: Organisation for Economic Co-operation and Development
- PBT: persistent, bioaccumulative and toxic
- vPvB: very persistent and very bioaccumulative
- PNEC: Predicted No Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
- VOC: Volatile organic compound
- Acute Tox. 4: Acute toxicity, Category 4
- Aquatic Chronic 4: Long-term aquatic hazard, Category 4
- Repr. 2: Reproductive toxicity, Category 2
- Skin Sens. 1B: Skin sensitization, Category 1B
- STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. A**

Revision date: 16.05.2024

Page 10 of 10

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. B**

Revision date: 16.05.2024

Page 1 of 10

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Liquix SOS, Comp. B

UFI: 4HQV-30NR-6009-0S8Q

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Fastening system - Component B

**Uses advised against**

no restriction

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

Company name: TOX-DÜBEL-TECHNIK GmbH &amp; Co. KG

Street: Brunnenstraße 31

Place: D-72505 Krauchenwies

Telephone: +49 (7576) 9295-0

Telefax: +49 (7576) 9295-199

E-mail: info@tox.de

Internet: www.tox.de

**1.4. Emergency telephone number:**

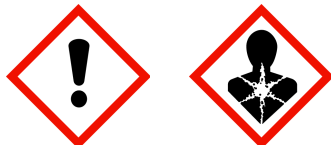
+49 (0)551-19240 (GIZ-Nord, German and English, 24/7)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**Acute Tox. 4; H332  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Resp. Sens. 1; H334  
Skin Sens. 1; H317  
Carc. 2; H351  
STOT SE 3; H335  
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

Diphenylmethanediisocyanate, isomeres and homologues

**Signal word:** Danger**Pictograms:****Hazard statements**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.

# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. B

Revision date: 16.05.2024

Page 2 of 10

H351 Suspected of causing cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves and eye protection/face protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P405 Store locked up.  
 P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

### Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3. Other hazards

This product contains substances that are subject to Annex XVII, entry No. 56, REACH Regulation 1907/2006/EC: see section 15.

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. Symptoms can occur only after several hours.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Take off contaminated clothing and wash it before reuse.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No   Index No   REACH No	
	Classification (GB CLP Regulation)	
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	80 - < 85 %
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1A, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373	

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
9016-87-9		Diphenylmethanediisocyanate, isomeres and homologues	80 - < 85 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 9400 mg/kg; oral: LD50 = > 2000 mg/kg	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell. Do not breathe dust/fume/gas/mist/vapours/spray.

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. B**

Revision date: 16.05.2024

Page 3 of 10

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful by inhalation.

Symptoms can occur only after several hours.

May cause damage to organs through prolonged or repeated exposure.

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

May cause respiratory irritation.

Suspected of causing cancer.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam

Extinguishing powder

Water spray jet

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

**Unsuitable extinguishing media**

Full water jet

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

Pyrolysis products, toxic

Carbon monoxide

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Full protection suit. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. B**

Revision date: 16.05.2024

Page 4 of 10

**For cleaning up**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.

Wash hands thoroughly after handling. When using do not eat, drink or smoke. Avoid contact during pregnancy and while nursing.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a place accessible by authorized persons only. Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

Keep container tightly closed in a cool place.

storage temperature: 5 - 25°C

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

see section 1.2

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. B

Revision date: 16.05.2024

Page 5 of 10

### Eye/face protection

Wear eye protection/face protection. Wear safety glasses.

### Hand protection

Disposable gloves  
 Recommended material: NBR (Nitrile rubber)  
 Breakthrough time: > 480 min  
 Thickness of the glove material: > 0,2 mm  
 DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

## SECTION 9: Physical and chemical properties

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

Physical state:	solid (pasty)	
Colour:	light beige	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		Non-flammable.
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		No data available
pH-Value:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Viscosity / kinematic:		not applicable
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents:	No data available	
Partition coefficient n-octanol/water:		not applicable
Vapour pressure:		No data available
Density (at 20 °C):		1,25 g/cm <sup>3</sup>
Relative vapour density:		not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive.

##### Self-ignition temperature

Solid: not applicable

# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. B

Revision date: 16.05.2024

Page 6 of 10

Oxidizing properties  
Not oxidising.

### Other safety characteristics

Evaporation rate: No data available  
Solid content: No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

see section 10.3

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent  
Exothermic reaction with: Amines, Water

### 10.4. Conditions to avoid

see section 7.2

### 10.5. Incompatible materials

Oxidising agent, strong

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Harmful if inhaled.

#### ATE<sub>mix</sub> calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 13,200 mg/l; ATE (inhalation dust/mist) 1,8010 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues				
	oral	LD50 > 2000 mg/kg			
	dermal	LD50 > 9400 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.  
Serious eye damage/eye irritation: Causes serious eye irritation.

#### Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, isomeres and homologues)  
May cause an allergic skin reaction. (Diphenylmethanediisocyanate, isomeres and homologues)  
Contains isocyanates. May produce an allergic reaction.

#### Carcinogenic/mutagenic/toxic effects for reproduction



# Safety Data Sheet

according to UK REACH Regulation

## Liquix SOS, Comp. B

Revision date: 16.05.2024

Page 7 of 10

Suspected of causing cancer. (Diphenylmethanediisocyanate, isomeres and homologues)

Germ cell mutagenicity: 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

May cause respiratory irritation. (Diphenylmethanediisocyanate, isomeres and homologues)

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Diphenylmethanediisocyanate, isomeres and homologues)

### Aspiration hazard

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

## 11.2. Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Danio rerio (zebrafish)		OECD Prüfrichtlinie 203
	Crustacea toxicity	NOEC > 10 mg/l	21 d	Daphnia magna (Big water flea)		

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues				
	OECD 302C	0%	28		

### 12.3. Bioaccumulative potential

The product has not been tested.

### BCF

CAS No	Chemical name	BCF	Species	Source
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	< 14		

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. B**

Revision date: 16.05.2024

Page 8 of 10

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Safety Data Sheet**

according to UK REACH Regulation

**Liquix SOS, Comp. B**

Revision date: 16.05.2024

Page 9 of 10

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 56

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

VOC content: &lt; 0,1 % (DIN EN ISO 11890-2)

This product contains substances that are subject to Annex XVII, entry No. 56, of Regulation (EC) No. 1907/2006 (REACH): Diphenylmethane diisocyanate, isomers and homologs CAS-No.: 9016-87-9, Diphenylmethane-4,4'-diisocyanate CAS-No.: 101-68-8, diphenylmethane-2,4'-diisocyanate CAS-No.: 5873-54-1, 2,2'-methylenediphenyldiisocyanate CAS-No.: 2536-05-2

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IC50: Inhibitory concentration, 50%

IMDG: International Maritime Code for Dangerous Goods

## Safety Data Sheet

according to UK REACH Regulation

### Liquix SOS, Comp. B

Revision date: 16.05.2024

Page 10 of 10

LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 NOEC: No Observed Effect Concentration  
 OECD: Organisation for Economic Co-operation and Development  
 PBT: persistent, bioaccumulative and toxic  
 vPvB: very persistent and very bioaccumulative  
 PNEC: Predicted No Effect Concentration  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
 VOC: Volatile organic compound  
 Acute Tox. 4: Acute toxicity, Category 4  
 Carc. 2: Carcinogenicity, Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 2; H373	Calculation method

#### Relevant H and EUH statements (number and full text)

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.
EUH204	Contains isocyanates. May produce an allergic reaction.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*