

# Safety datasheet (MSDS)



Prepared 17-06-2016  
Revision: (dato) 02-09-2021  
SDS-version 1.6

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## ITEM 1: Identification of the substance/mixture and of the company/company

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### 1.1. Product identifier

Trade name: AQUAWrite  
Product-no.: -

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

#### **Recommended uses:**

Base in 2 component PUR paint. Mix with hardener in a ratio of 5:1.

#### **Uses advised against:**

May only be used as described above, other uses must be made in consultation with the supplier.

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

#### **Company name and address:**

Lars Frey Farve & Lak ApS  
Solrødvej 6, port H  
DK-4621 Gadstrup  
Denmark  
Tlf: +45 20 84 21 31

#### **Contact person and email:**

lfj@larsfrey.dk

#### **The safety data sheet has been prepared and validated by:**

Mediator A/S, Centervej 2, DK-6000 Kolding, Denmark. Consultant: HG

### 1.4. Emergency phone

The Danish poison hotline: +45 82 12 12 12, or the poison line in your country and region

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## ITEM 2: Hazard identification

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### 2.1. Classification of the substance or mixture

CLP (1272/2008):  
EUH211

Wording of H-phrases - see below in point 16.

### 2.2. 2.2. Marking elements

#### **Signal word:**

-

Safety data sheet can be requested on request. (EUH 210)

**Warning! Hazardous respirable droplets may form when sprayed. Avoid inhalation of spray or mist. (EUH 211)**

### 2.3. Other dangers

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#### **Other marking:**

-

#### **Other**

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### ITEM 3: Composition of/information on ingredients

#### 3.1./3.2. Substances / Mixtures

Ingredient	Index no / REACH Reg. no.	CAS No.	EC no.	CLP classification	Wt/Wt %	Note
Titanium Dioxide	- / -	13463-67-7	236-675-5	Carc. 2 :H351	25 - 35	1

1) The substance has a national limit value.

Wording of H-phrases - see below in point 16.

### ITEM 4: First aid measures

#### 4.1. Description of first aid measures

##### **Inhalation:**

Seek fresh air.

Keep the casualty under supervision.

Seek medical attention if discomfort continues.

##### **Intake:**

Rinse your mouth thoroughly and drink 1-2 glasses of water in small sips.

Seek medical attention in case of discomfort.

##### **Skin contact:**

Remove contaminated clothing - Wash the skin with soap and water.

Seek medical attention if discomfort continues.

##### **Eye contact:**

If the product gets into the eyes, rinse with water (preferably from eyewash) until the irritation ceases. Seek medical attention if irritation persists.

##### **Additional information:**

When consulting a doctor, bring the safety data sheet or label.

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

May be slightly irritating to skin and eyes.

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

Show this safety data sheet to the doctor or emergency department.

### ITEM 5: Fire fighting

#### 5.1. Extinguishing media

Surrounding fire:

Extinguish with powder, foam, carbon dioxide or water mist.

Do not use a water jet as this can spread the fire.

#### 5.2. Special hazards associated with the substance or mixture

The product is not immediately flammable. Avoid inhalation of vapors and fumes - seek fresh air.

Can develop health-hazardous flue gases with carbon monoxide in the event of a fire.

In case of fire, thick black smoke will be produced.

Exposure to decomposition products can cause health damage.

Cool closed containers exposed to fire with water.

Do not let water from fire extinguishing run into sewers and streams.

#### 5.3. Instructions for firefighters

Firefighters should use appropriate protective equipment.

### ITEM 6: Precautions against accidental release

#### 6.1. Personal safety measures, personal protective equipment and emergency procedures

Use personal protective equipment - see section 8

#### 6.2. Environmental protection measures

Avoid discharging large quantities of concentrated waste and residues into sewers.

#### 6.3. Methods and equipment for containment and purification

Spills are contained and collected with sand or other absorbent material and transferred to suitable waste containers.

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### 6.4. Reference to other points

See point 8 for type of protective equipment.  
See point 13 for disposal.

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### ITEM 7: Handling and storage

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#### 7.1. Precautions for safe handling

See under point 8 for information on precautions during use and personal protective equipment.  
The product should be used in well-ventilated conditions.

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

The product should be stored securely, out of the reach of children and not together with food, feed, medicines etc.  
Should be stored in tightly closed original packaging.  
Must be stored in a dry, cool and ventilated place.

#### 7.3. Special use

See application section 1.

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### ITEM 8: Exposure controls/personal protective equipment

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#### 8.1. Control parameters

Limit values according to executive order no. 1426 of 28/06/2021 on limit values for substances and materials:

Ingredient	Limit value ppm / mg/m <sup>3</sup>	Comment
Titaniumdioxide	- / 6	K

K = The substance is considered to be carcinogenic in dusty products.

#### DNEL/PNEC values:

No data.

#### 8.2. Exposure control

There is no exposure scenario for this product.

#### Appropriate exposure control measures

Use protective equipment as indicated below.  
Wash hands before breaks, toilet visits and after work.  
Do not eat, drink or smoke while using this product.

#### Personal protection:



#### Respiratory protection:

Not required.

#### Hand protection:

Use nitrile rubber protective gloves.

#### Eye/face protection:

Not required

#### Protection of skin:

Not required.

#### Measures to limit environmental exposure:

It must be ensured that local regulations for discharge are observed.

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### ITEM 9: Physical and chemical properties

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

Physical form	Liquid
Color:	-
Smell:	-
Melting point/Freezing point (°C):	-
Boiling point or initial boiling point and boiling point range (°C):	-
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	-
Self-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	-
Kinematic viscosity (mm <sup>2</sup> /s):	-
Solubility:	-
Partition coefficient n-octanol/water (log value):	-
Vapor pressure:	-
Density and/or relative density:	-
Relative vapor density:	-
Particle Properties:	-

#### 9.2. Other information

VOC (volatile organic compounds):	< 4 g/kg
Curing time, when mixed with hardener:	6-8 hours @ 25 °C The product is considered complete cured after 72 h.

### ITEM 10: Stability and reactivity

#### 10.1. Reactivity

No data.

#### 10.2. Chemical stability

The product is stable when used in accordance with manufacturer's instructions.

#### 10.3. Risk of dangerous reactions

No one known.

#### 10.4. Conditions to avoid

No one known.

#### 10.5. Materials to avoid

No one known.

#### 10.6. Hazardous decomposition products

Cured materials can split at temperatures above 150 °C and release dangerous gases.

### ITEM 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

##### Acute toxicity:

The database does not give rise to classification.

Substance	Exposure route	Species	Test	Result
Titanium dioxide	Inhalation	Rats	LC50/ 4 Hours	> 6.82 mg/L

##### Skin corrosion/irritation:

Can be slightly annoying.

##### Serious eye damage/eye irritation:

May cause eye irritation.

##### Respiratory sensitization or skin sensitization:

The database does not give rise to classification.

##### Germ cell mutagenicity:

The database does not give rise to classification.

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### **Carcinogenicity:**

The product contains titanium dioxide, which is suspected of causing cancer.  
Warning! Hazardous respirable droplets may form when sprayed. Avoid inhalation of spray or mist.

### **Reproductive toxicity:**

The database does not give rise to classification.

### **Single STOT exposure:**

The database does not give rise to classification.

### **Repeated STOT exposures:**

The database does not give rise to classification.

### **Aspiration hazard:**

The database does not give rise to classification.

### **11.2. Information on other hazards**

Test data not available.

## ITEM 12: Environmental information

### **12.1. Toxicity**

Substance	Test-duration	Type	Type Test Result	Result
Titandioxid	72 Hours	Algae	EC50	> 100 mg/L

### **12.2. Persistence and degradability**

Substance	Degradability in water environment	Test	Result
No data	-	-	-

### **12.3. Bioaccumulative potential**

Substance	Potential bioaccumulative	LogPow
No data	-	-

### **12.4. Mobility in soil**

Test data not available.

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

The product does not meet the criteria for PBT or vPvB.

### **12.6. Hormone-disrupting properties.**

Test data not available.

### **12.7. Other adverse effects**

None.

## ITEM 13: Disposal

### **13.1. Methods for waste treatment**

The product is not hazardous waste according to the Waste Order. It is recommended that waste and waste be disposed of via the municipal waste scheme with the specifications below.

EAK-Code	Description	Chemical waste group
08 01 12	Paint and varnish waste, apart from waste belonging to 08 01 11	H

### **Special marking:**

-

### **Contaminated packaging:**

Empty packaging and residues must be handed over to the municipal waste scheme for hazardous waste.

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### ITEM 14: Transport information

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The product is not covered by the regulations on the transport of dangerous goods by road and sea according to ADR and IMDG.

#### 14.1 -14.4.

##### ADR

-

##### IMDG

-

#### 14.5. Environmental hazards

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#### 14.6. Special precautions for the user

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#### 14.7. Bulk transport by sea according to IMO instruments

Not applicable.

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### ITEM 15: Information on regulation

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#### 15.1. Special regulations/specific legislation for the substance or mixture with regard to safety, health and the environment

##### Sources:

The Norwegian Working Environment Authority's order no. 301 of 13 May 1993 on determining code numbers, with subsequent amendments.  
Order on work with substances and materials (chemical agents) - BEK no. 1793 of 18/12/2015.

The Norwegian Working Environment Authority's order no. 1049 of 30 May 2021 on youth work, with subsequent amendments.

Executive Order No. 1369 of 25 November 2015 on the marketing and labeling of volatile organic compounds in certain paints and varnishes as well as products for car refinishing.

Executive order no. 1075 of 24 November 2011 on classification, packaging, labelling, sale and storage of substances and mixtures, with subsequent amendments.

Executive Order No. 115 of 26 January 2017 of the Chemicals Act.

Order on special duties for manufacturers, suppliers and importers, etc. of substances and materials according to the Working Environment Act - BEK no. 1794 of 18/12/2015.

Executive order no. 1426 of 28/06/2021 on limit values for substances and materials.

Executive order no. 2159 of 09/12/2020 on waste, with subsequent amendments.

##### Other marking:

Maximum VOC content: <4 g/l, VOC limit value: (Aj (VB)) 500 g/l

MAL Code (1993): 00-1.

MAL code (1993) Ready-to-use mixture: 3-3.

##### Limitations of use:

-

##### Requirements for special education:

-

#### 15.2. Chemical Safety Assessment

None.

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### ITEM 16: Other information

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Prepared on the basis of EU regulation 1907/2006 (REACH)

##### Other information:

##### Sources:

EU regulation no. 1907/2006 (REACH), with later adaptations.

EU regulation no. 1272/2008 (CLP), with later adaptations.

EU Regulation No. 276/2010

Directive 2000/532/EC

ECHA – The European Chemicals Agency.

##### The full wording of H sentences referred to in points 2+3:

EUH 210 Safety data sheet can be requested on request.

EUH 211 Warning! Hazardous respirable droplets may form when sprayed. Avoid inhalation of spray or mist.

##### Classification according to Regulation (EC) No. 1272/2008:

EUH211 Expert assessment

## Safety datasheet (MSDS)

### **Abbreviations and acronyms used in the safety data sheet::**

REACH: Registration, assessment and approval of and restrictions on chemicals. Regulation (EC) No. 1907/2006.

CLP: Regulation (EC) No. 1272/2008 on classification, labeling and packaging.

CAS No.: Chemical Abstracts Service number.

EC no.: EINECS and ELINCS number (see also EINECS and ELINCS).

DNEL: Derived No-Effect Level (Derived No-Effect Level).

PNEC: Predicted No Effect Concentration (Predicted No Effect Concentration).

STOT: Specific Target Organ Toxicity (Specific Target Organ Toxicity).

LD50: Lethal Dose for 50% of a test population.

LC50: Lethal concentration for 50% of a test population.

EC50: The effective substance concentration that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic substance (Persistent, Bioaccumulative and Toxic).

vPvB: Very persistent and very bioaccumulative (Very Persistent and Very Bioaccumulative).

NOEC: The highest tested concentration where, in a study, no statistically significant effect is observed in the exposed population compared to an appropriate control group (No Observed Effect Concentration).

NOAEL: The highest tested dose or the highest tested exposure level at which no statistically significant increases in the frequency or severity of adverse effects occur between the exposed population and an appropriate control group. Some effects may occur at this level, but they are not considered harmful or precursors of harmful effects.

### **Other:**

The information in this safety data sheet only applies to the product mentioned in point 1 and is not necessarily valid when used together with other products.

### **Changes have been made in the following points:**

General update.

### **This safety data sheet replaces version:**

1.5

## Safety datasheet (MSDS)

Prepared 17-06-2016  
 Revision: (date) 02-09-2021  
 SDS-version 1.6

### ITEM 1: Identification of the substance/mixture and of the company/company

#### 1.1. Product identifier

Trade name: AQUAWRITE (Hardener)  
 Product number.: -

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

Hardener in 2 component PUR paint. Mix with base in a ratio of 1:5.

#### Uses advised against:

May only be used as described above, other uses must be made in consultation with the supplier.

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

##### Company name and address:

Lars Frey Farve & Lak ApS  
 Solrødvej 6, port H  
 DK-4621 Gadstrup  
 Denmark  
 Tlf: + 45 20 84 21 31

##### Contact person and email:

lfj@larsfrey.dk

##### The safety data sheet has been prepared and validated by:

Mediator A/S, Centervej 2, DK-6000 Kolding, Denmark. Consultant: HG

#### 1.4. Emergency phone

The Danish poison hotline: +45 82 12 12 12, or the poison line in your country and region

### ITEM 2: Hazard identification

#### 2.1. Classification of the substance or mixture

CLP (1272/2008):  
 Skin Sens. 1;H317  
 Acute Tox. 4;H332  
 STOT SE 3;H335  
 EUH 204

Wording of H-phrases - see below in item 16.

#### 2.2. Marking elements



##### Signal word:

Warning

May cause allergic skin reaction. (H317)  
 Harmful by inhalation. (H332)  
 May cause respiratory irritation. (H335)  
 Contains isocyanates. May trigger an allergic reaction. (EUH 204)

Avoid inhalation of fumes/vapours. (P261)

Wear protective gloves. (P280)

IF INHALED: Move the person to a place with fresh air and ensure that breathing is facilitated. Call the POISON LINE/doctor in case of discomfort. (P304 + P340)

In case of skin irritation or rash: Seek medical attention. (P333 + P313)

#### 2.3. Other dangers

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**Other marking:**

-

**Other**

-

## ITEM 3: Composition of/information on ingredients

### 3.1./3.2. Substances / Mixtures

Ingredient	Index-no. / REACH-Reg. no.	CAS-no.	EC no.	CLP classification	Vgt/Vgt %	Note
Hexmethylene-1,6-diisocyanate homopolymer	- / 01-2119485796-17-xxxx	28182-81-2	500-060-2	Skin Sens. 1;H317, Acute Tox. 4;H332, STOT SE 3;H335	90-100	1
Hexamethylene-1,6-diisocyanate	615-011-00-1 / 01-2119457571-37-xxxx	822-06-0	212-485-8	Skin Irrit. 2;H315 Skin Sens.1;H317, Eye Irrit. 2;H319, Acute Tox. 3;H331, Resp. Sens. 1;H334,STOT SE 3;H335	<0,4	1

1) The substance is an isocyanate.

Wording of H-phrases - see below in item 16.

## ITEM 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Seek fresh air.

Keep the casualty under supervision.

Seek medical attention in case of discomfort.

#### Intake:

Rinse your mouth thoroughly and drink 1-2 glasses of water in small sips.

Do not induce vomiting.

Seek medical attention in case of discomfort.

#### Skin contact:

Remove contaminated clothing immediately.

Wash the skin with soap and water.

In case of skin irritation or rash: Seek medical attention.

#### Eye contact:

If the product gets into the eyes, rinse with water (preferably from eyewash) until the irritation ceases. Seek medical attention if irritation persists.

#### Additional information:

When consulting a doctor, bring the safety data sheet or label.

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

The product contains substances that can cause an allergic reaction in case of skin contact. The allergic reaction typically occurs 12-72 hours after exposure to the allergen and occurs when the allergen penetrates the skin and reacts with proteins in the upper skin layer. The body's immune system perceives the chemically altered protein as foreign and will try to break it down.

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

Show this safety data sheet to the doctor or emergency department.

## ITEM 5: Fire fighting

### 5.1. Extinguishing media

Extinguish with powder, foam, carbon dioxide or water mist.

Do not use a water jet as this can spread the fire.

### 5.2. Special hazards associated with the substance or mixture

Avoid inhalation of vapors and fumes - seek fresh air.

In case of fire, the product splits and dangerous gases such as isocyanates and CO<sub>x</sub> can be formed. In case of fire, thick black smoke will be produced.

Exposure to decomposition products can cause health damage.

Cool closed containers exposed to fire with water.

Do not let water from fire extinguishing run into sewers and streams.

### 5.3. Instructions for firefighters

Firefighters should use appropriate protective equipment.

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### ITEM 6: Accidental release precautions

#### 6.1. Personal safety measures, personal protective equipment and emergency procedures

Use personal protective equipment - see item 8.  
Avoid contact with skin and eyes.

#### 6.2. Environmental protection measures

Contact the authorities in connection with contamination of the soil and water environment as well as in the event of spillage into sewers.  
Spillage must not be discharged into sewers and/or surface water.

#### 6.3. Methods and equipment for containment and purification

Spills are contained and collected with sand or other absorbent material and transferred to suitable waste containers.

#### 6.4. Reference to other points

See item 8 for type of protective equipment.  
See item 13 for disposal.

### ITEM 7: Handling and storage

#### 7.1. Precautions for safe handling

See under item 8 for information on precautions during use and personal protective equipment.  
The product should be used in well-ventilated conditions.

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

The product should be stored securely, out of the reach of children and not together with food, feed, medicines etc. Should be stored in tightly closed original packaging.  
Must be stored in a dry, cool and ventilated place.

#### 7.3. Special uses

See application item 1.

### ITEM 8: Exposure controls/personal protective equipment

#### 8.1. Control parameters

Limit values according to executive order no. 1426 of 28/06/2021 on limit values for substances and materials:

Ingredient	Threshold value ppm / mg/m <sup>3</sup>	Markings
Hexmethylene-1,6-diisocyanate	0.005 / 0.035	-

#### DNEL/PNEC values:

DNEL Hexamethylene-1,6-diisocyanate	Workers	Consumers
Inhalation - Chronic Local Inhalation -	0.035 mg/m <sup>3</sup>	-
Acute Local	0.07 mg/m <sup>3</sup>	-

#### 8.2. Exposure control

*There is no exposure scenario for this product.*

#### Appropriate exposure control measures:

*Use protective equipment as indicated below.  
Wash hands before breaks, toilet visits and after work.  
Do not eat, drink or smoke while using this product. Special work clothes must not be worn during meal breaks.*

#### Personal protection:



#### Respiratory protection:

In case of insufficient ventilation, a respirator with filter A must be used.

#### Protection of hands:

Use protective gloves of type 4H. There may be disposable nitrile rubber gloves are used, if the gloves are changed immediately after they are contaminated.

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**Eye/face protection:**

Use protective glasses if there is a risk of splashing in the eyes.

**Protection of skin:**

Use special work clothes.  
When spraying, coveralls are used.

**Measures to limit environmental exposure:**

When using the product, make sure that there are available containment materials nearby. If possible, a spill tray is used during work.

**ITEM 9: Physical and chemical properties**

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

Physical form:	Flydende
Color:	-
Smell:	-
Melting point/Freezing point (°C):	-
Boiling point or initial boiling point and boiling point range (°C):	-
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	-
Self-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	-
Kinematic viscosity (mm <sup>2</sup> /s):	-
Solubility:	-
Partition coefficient n-octanol/water (log value):	-
Vapor pressure:	-
Density and/or relative density:	-
Relative vapor density:	-
Particle properties::	-

**9.2. Other information**

VOC (volatile organic compounds)	0
Curing time, when mixed with hardener:	6-8 hours @ 25 °C The product is considered fully cured after 72 hours.

**ITEM 10: Stability and reactivity**

**10.1. Reactivity**

No data.

**10.2. Chemical stability**

The product is stable when used in accordance with manufacturer's instructions.

**10.3. Risk of dangerous reactions**

No one known.

**10.4. Conditions to avoid**

No one known.

**10.5. Materials to avoid**

No one known.

**10.6. Hazardous decomposition products**

Cured materials can split at temperatures above 150 °C and release dangerous gases.

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### ITEM 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No.

##### 1272/2008 Acute toxicity:

The database does not give rise to classification.

Substance	Exposure route	Type	Test	Result
Hexamethylene-1,6 -diisocyanate	Oral	Rat	LD50	959 mg/kg bw
Hexamethylene-1,6 -diisocyanate	Inhalation	Rat	LC50/ 4 hours	124 mg/m <sup>3</sup> air
Hexamethylene-1,6 -diisocyanate	Dermalt	Rat	LD50	> 7000 mg/kg bw

##### Skin corrosion/irritation:

May be irritating to the skin - may cause redness.

##### Serious eye damage/eye irritation:

May cause eye irritation.

##### Respiratory sensitization or skin sensitization:

May cause hypersensitivity in contact with the skin. The symptoms are redness, swelling, blisters and ulceration - usually develop slowly.

##### Germ cell mutagenicity:

The database does not give rise to classification.

##### Carcinogenicity:

The database does not give rise to classification.

##### Reproductive toxicity:

The database does not give rise to classification.

##### Single STOT exposure:

The database does not give rise to classification.

##### Repeated STOT exposures:

The database does not give rise to classification.

##### Aspiration hazard:

The database does not give rise to classification.

#### 11.2. Information on other hazards

Test data not available.

### ITEM 12: Environmental information

#### 12.1. Toxicity

Substance	Test-duration	Type	Test	Result
No data.	-	-	-	-

#### 12.2. Persistence and degradability

Substance	Degradability in water environment	Test	Result
Hexamethylene-1,6 -diisocyanate	No	OECD Guideline 301 F	28 days 42%

#### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulative	LogPow
Hexamethylene-1,6 -diisocyanate	Yes	3.2

#### 12.4. Mobility in soil

Test data not available.

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

The product does not meet the criteria for PBT or vPvB.

#### 12.6. Hormone-disrupting properties

Test data not available.

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### 12.7. Other adverse effects

None.

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### ITEM 13: Disposal

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#### 13.1. Methods for waste treatment

The product is covered by the regulations on hazardous waste.

Spills and waste are collected in closed and tight containers, which are disposed of via the municipal waste scheme for hazardous waste with the specifications below.

EAK-Code	Description	Chemical waste group
08 05 01	Isocyanate waste	H

#### Special marking:

Spills, residues, empty packaging, discarded work clothes, used disposable towels and other contaminated material must be placed in special waste containers. Containers must be clearly marked with, for example, "Polyurethane waste. Beware! Eczema danger! Isocyanates can form when heated!"

#### Contaminated packaging:

Empty packaging and residues must be handed over to the municipal waste scheme for hazardous waste.

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### ITEM 14: Transport information

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The product is not covered by the regulations on the transport of dangerous goods by road and sea according to ADR and IMDG.

#### 14.1 -14.4.

##### ADR

-

##### IMDG

-

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for the user

-

#### 14.7. Bulk transport by sea according to IMO instruments

Not applicable.

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### ITEM 15: Information on regulation

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#### 15.1. Special regulations/specific legislation for the substance or mixture with regard to safety, health and the environment

##### Sources:

The Norwegian Working Environment Authority's order no. 301 of 13 May 1993 on determining code numbers, with subsequent amendments.

Order on work with substances and materials (chemical agents) - BEK no. 1793 of 18/12/2015.

The Norwegian Working Environment Authority's order no. 1049 of 30 May 2021 on youth work, with subsequent amendments.

Executive Order No. 1369 of 25 November 2015 on the marketing and labeling of volatile organic compounds in certain paints and varnishes as well as products for car refinishing.

Executive order no. 1075 of 24 November 2011 on classification, packaging, labelling, sale and storage of substances and mixtures, with subsequent amendments.

Executive Order No. 115 of 26 January 2017 of the Chemicals Act.

Order on special duties for manufacturers, suppliers and importers, etc. of substances and materials according to the Working Environment Act - BEK no. 1794 of 18/12/2015.

Executive order no. 1426 of 28/06/2021 on limit values for substances and materials.

Executive order no. 2159 of 09/12/2020 on waste, with subsequent amendments.

##### Other markings:

Maximum VOC content: 0 g/l, VOC limit value: (A/j (VB)) 500 g/l

MAL-Code (1993): 5-3.

##### Limitations of use:

Young people under the age of 18 may not professionally use or be exposed to the product. However, young people over the age of 15 are exempt from this rule if the product is included as a necessary part of an education. (cf., however, the Norwegian Working Environment Authority's Executive Order no. 239 of 06/04/2005 on youth work).

During a workplace assessment, it must be ensured that employees are not exposed to influences that could entail a risk during pregnancy or breastfeeding (cf. Norwegian Working Environment Authority's Executive Order no. 1234 of 29/10/2018 on the performance of the work).



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### Requirements for special education:

People with eczema or a diagnosed epoxy allergy must not work with the product. People with profuse hand sweating (hyperhidrosis manuum) must not work with the product.

May cause allergic reactions when used in people who are already hypersensitive to diisocyanates. People suffering from asthma, eczema or skin problems should avoid contact, including skin contact, with this product. This product should not be used in case of poor ventilation, unless a protective mask with a suitable gas filter (eg type A1 according to norm EN 14387) is worn.

People who suffer from asthma or eczema, as well as people who have been diagnosed with chronic lung diseases or have been diagnosed with a skin or airway allergy to isocyanates, must not work with the product. People with profuse hand sweating (hyperhidrosis manuum) must not work with the product. Users must have undergone approved training to work with epoxy resins and isocyanates.

### 15.2. Chemical Safety Assessment

None.

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### ITEM 16: Other information

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Prepared on the basis of EU regulation 1907/2006 (REACH)

#### Other information:

##### Sources:

EU regulation no. 1907/2006 (REACH), with later adaptations.

EU regulation no. 1272/2008 (CLP), with later adaptations.

EU Regulation No. 276/2010

Directive 2000/532/EC

ECHA – The European Chemicals Agency.

#### The full wording of H sentences referred to in item 2+3:

H315	Causes skin irritation.
H317	May cause allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic by inhalation.
H332	Harmful by inhalation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
EUH 204	Contains isocyanates. May trigger an allergic reaction.

#### Classification according to Regulation (EC) No. 1272/2008:

Skin Sens. 1;H317	Calculation Method
Acute Tox. 4;H332	Calculation Method
STOT SE 3;H335	Calculation Method
EUH 204	Calculation Method

#### Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, assessment and approval of and restrictions on chemicals. Regulation (EC) No. 1907/2006.

CLP: Regulation (EC) No. 1272/2008 on classification, labeling and packaging.

CAS No.: Chemical Abstracts Service number.

EC no.: EINECS and ELINCS number (see also EINECS and ELINCS).

DNEL: Derived No-Effect Level (Derived No-Effect Level).

PNEC: Predicted No Effect Concentration (Predicted No Effect Concentration).

STOT: Specific Target Organ Toxicity (Specific Target Organ Toxicity).

LD50: Lethal Dose for 50% of a test population.

LC50: Lethal concentration for 50% of a test population.

EC50: The effective substance concentration that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic substance (Persistent, Bioaccumulative and Toxic).

vPvB: Very persistent and very bioaccumulative (Very Persistent and Very Bioaccumulative).

NOEC: The highest tested concentration where, in a study, no statistically significant effect is observed in the exposed population compared to an appropriate control group (No Observed Effect Concentration).

NOAEL: The highest tested dose or the highest tested exposure level at which no statistically significant increases in the frequency or severity of adverse effects occur between the exposed population and an appropriate control group. Some effects may occur at this level, but they are not considered harmful or precursors of harmful effects.

#### Other things:

The information in this safety data sheet only applies to the product mentioned in item 1 and is not necessarily valid when used together with other products.

#### Changes have been made in the following points:

General update.

#### This safety data sheet replaces version:

1.5