



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

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

### 1.1. Product identifier

Modralit 3K Hardener

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

#### Use of the substance/preparation

Hardener

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

#### Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research &amp; Development: Fax: +49 2303 8807-562

E-mail address of person responsible sicherheitsdatenblatt@dreve.com

for this SDS

### 1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

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

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms

Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

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**Signal word**

Danger

**Hazard statements**

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

**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains	Methylendiisocyanat; 4,4'-Methylenediphenyl diisocyanate; 2,2'-Methylene diphenyldiisocyanate; o-(p-Isocyanatobenzyl)phenylisocyanate
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**2.3. Other hazards**

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures****Hazardous ingredients****Methylendiisocyanat**

CAS No.	9016-87-9		
Concentration	>=	54	%
Classification (Regulation (EC) No. 1272/2008)			
	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



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

## STOT RE 2 H373

Concentration limits (Regulation (EC) No. 1272/2008)

	Eye Irrit. 2	H319	>= 5 %
	Resp. Sens. 1	H334	>= 0,1 %
	Skin Irrit. 2	H315	>= 5 %
	STOT SE 3	H335	>= 5 %
cATpE	inhalative, Dust/Mist	1,5	mg/l
cATpE	inhalative, Vapors	11	mg/l

**4,4'-Methylenediphenyl diisocyanate**

CAS No. 101-68-8

EINECS no. 202-966-0

Registration no. 01-2119457014-47

Concentration &gt;= 20 &lt; 25 %

Classification (Regulation (EC) No. 1272/2008)

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

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 5 %
Resp. Sens. 1	H334	>= 0,1 %
Skin Irrit. 2	H315	>= 5 %
STOT SE 3	H335	>= 5 %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note 2, C

**o-(p-Isocyanatobenzyl)phenylisocyanate**

CAS No. 5873-54-1

EINECS no. 227-534-9

Registration no. 01-2119480143-45

Concentration &gt;= 5 &lt; 10 %

Classification (Regulation (EC) No. 1272/2008)

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

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 5 %
Resp. Sens. 1	H334	>= 0,1 %
Skin Irrit. 2	H315	>= 5 %
STOT SE 3	H335	>= 5 %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note 2, C

**2,2'-Methylene diphenyldiisocyanate**

CAS No. 2536-05-2

EINECS no. 219-799-4



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Registration no.	01-2119927323-43		
Concentration	>=	1	< 5 %
Classification (Regulation (EC) No. 1272/2008)			
	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

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 5 %
Resp. Sens. 1	H334	>= 0,1 %
Skin Irrit. 2	H315	>= 5 %
STOT SE 3	H335	>= 5 %

Additional remarks:

CLP

Regulation (EC) No 1272/2008, Annex VI, Note 2, C

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

#### After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

#### After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

#### After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

#### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

#### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## SECTION 5: Firefighting measures

Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

## 5.1. Extinguishing media

### Suitable extinguishing media

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist, Extinguishing measures to suit surroundings

### Non suitable extinguishing media

Full water jet

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

In the event of fire the following can be released: Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Isocyanates

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

## SECTION 6: Accidental release measures

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

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed.

#### Advice on protection against fire and explosion



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

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

### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

### Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### Methylendiisocyanat

Type AGW

E

Value 0,05 mg/m<sup>3</sup>

Maximum limit value: (I); Skin resorption / sensibilisation: H; Pregnancy group: Y; Status: 5/2010

#### Biological limit values

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

List BGW (TRGS 903)

Value 0,01 mg/g creatinine

Parameter 4,4'-diaminodiphenylmethane

Testing material Urine (U)

Test date End of exposure or end of shift (b)

#### Other information

Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

#### General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

#### Respiratory protection

Do not inhale vapours; Use suitable respiratory protective device in case of insufficient ventilation

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Appropriate Material nitrile



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

**Eye protection**

Safety glasses

**Body protection**

Clothing as usual in the chemical industry.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	
<b>Colour</b>	dark brown	
<b>Odour</b>	putrid	
<b>Melting point</b>		
Value	41	°C
<b>Freezing point</b>		
Remarks	not determined	
<b>Boiling point or initial boiling point and boiling range</b>		
Value	> 350	°C
<b>Flammability</b>		
evaluation	not determined	
<b>Upper and lower explosive limits</b>		
Lower explosion limit	0,4	%(V)
Remarks	not determined	
<b>Flash point</b>		
Value	229	°C
Method	DIN 51758	
<b>Ignition temperature</b>		
Value	400	°C
<b>Decomposition temperature</b>		
Remarks	not determined	
<b>pH value</b>		
Remarks	not determined	
<b>Viscosity</b>		
Remarks	not determined	
<b>Solubility(ies)</b>		
Remarks	not determined	
<b>Partition coefficient n-octanol/water (log value)</b>		
Remarks	not determined	
<b>Vapour pressure</b>		
Remarks	not determined	
<b>Density and/or relative density</b>		
Value	1,22	g/cm <sup>3</sup>
Temperature	20	°C
Method	DIN 53217	
<b>Relative vapour density</b>		
Remarks	not determined	



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks virtually insoluble

**Explosive properties**

evaluation no

**Oxidising properties**

Remarks not determined

**Solvent content**

Value 0,0 %

**Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials, amines, alcohols and water. Protect from heat and direct sunlight

**10.4. Conditions to avoid**

Protect from heat and direct sunlight

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

Carbon monoxide, nitrous oxides (NOx), Possible in traces, Hydrocyanic acid

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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

**Acute oral toxicity (Components)****Methylendiisocyanat**Species rat  
LD50 49000 mg/kg**4,4'-Methylenediphenyl diisocyanate**





Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

LD50 > 2000 mg/kg  
Remarks Test conducted with a similar formulation.

**o-(p-Isocyanatobenzyl)phenylisocyanate**

LD50 > 2000 mg/kg  
Remarks Test conducted with a similar formulation.

**2,2'-Methylene diphenyldiisocyanate**

LD50 > 2000 mg/kg  
Remarks Test conducted with a similar formulation.

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****Methylendiisocyanat**

Species rabbit  
LD50 > 9400 mg/kg

**o-(p-Isocyanatobenzyl)phenylisocyanate**

> 9400 mg/kg  
Remarks Test conducted with a similar formulation.

**2,2'-Methylene diphenyldiisocyanate**

LD50 > 9400 mg/kg  
Remarks Test conducted with a similar formulation.

**Acute inhalational toxicity**

ATE 15,7143 mg/l  
Administration/Form Vapors  
Method calculated value (Regulation (EC) No. 1272/2008)  
ATE 2,1429 mg/l  
Administration/Form Dust/Mist  
Method calculated value (Regulation (EC) No. 1272/2008)  
Remarks The classification criteria are met.

**Acute inhalative toxicity (Components)****4,4'-Methylenediphenyl diisocyanate**

Species rat  
LC50 368 mg/m<sup>3</sup>  
Duration of exposure 4 h  
Administration/Form Dust/Mist  
Method OECD 403

**2,2'-Methylene diphenyldiisocyanate**

Species rat (female)  
LC50 685,75 mg/m<sup>3</sup>  
Duration of exposure 4 h  
Administration/Form Dust/Mist  
Method OECD 403

**2,2'-Methylene diphenyldiisocyanate**

Species rat (male)  
LC50 527,2 mg/m<sup>3</sup>  
Duration of exposure 4 h  
Administration/Form Dust/Mist  
Method OECD 403

**o-(p-Isocyanatobenzyl)phenylisocyanate**

Species rat (male)  
LC50 387 mg/m<sup>3</sup>  
Duration of exposure 4 h  
Administration/Form Dust/Mist



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Method	OECD 403		
<b>o-(p-Isocyanatobenzyl)phenylisocyanate</b>			
Species	rat (female)		
LC50	645		mg/m <sup>3</sup>
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
<b>Methylendiisocyanat</b>			
Species	rat		
LC50	0,48		mg/l
Duration of exposure	4	h	

**Skin corrosion/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

**Skin corrosion/irritation (Components)****4,4'-Methylenediphenyl diisocyanate**

Species	rabbit
evaluation	irritant
Method	OECD 404

**o-(p-Isocyanatobenzyl)phenylisocyanate**

evaluation	irritant
Remarks	Test conducted with a similar formulation.

**Methylendiisocyanat**

evaluation	irritant
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**Serious eye damage/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

**Serious eye damage/irritation (Components)****4,4'-Methylenediphenyl diisocyanate**

Species	rabbit
evaluation	irritant
Method	OECD 405

**o-(p-Isocyanatobenzyl)phenylisocyanate**

evaluation	slightly irritant
Remarks	Test conducted with a similar formulation.

**Methylendiisocyanat**

evaluation	irritant
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**Sensitization**

evaluation	May cause sensitization by inhalation.
Remarks	The classification criteria are met.

**Sensitization (Components)****4,4'-Methylenediphenyl diisocyanate**

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing
Method	OECD 406

**4,4'-Methylenediphenyl diisocyanate**

Route of exposure	inhalative
Species	guinea pig
evaluation	sensitizing

**2,2'-Methylene diphenyldiisocyanate**

Route of exposure	dermal
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Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Species mouse  
 evaluation sensitizing  
 Method OECD 429

**2,2'-Methylene diphenyldiisocyanate**

Route of exposure inhalative  
 evaluation sensitizing  
 Remarks Test conducted with a similar formulation.

**o-(p-Isocyanatobenzyl)phenylisocyanate**

Route of exposure dermal  
 evaluation sensitizing  
 Remarks Test conducted with a similar formulation.

**o-(p-Isocyanatobenzyl)phenylisocyanate**

Route of exposure inhalative  
 evaluation sensitizing  
 Remarks Test conducted with a similar formulation.

**Methylendiisocyanat**

Route of exposure dermal  
 evaluation sensitizing

**Methylendiisocyanat**

Route of exposure inhalative  
 evaluation sensitizing

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

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

**Reproductive toxicity**

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

**Carcinogenicity**

evaluation Suspected of causing cancer.  
 Remarks The classification criteria are met.

**Carcinogenicity (Components)****4,4'-Methylenediphenyl diisocyanate**

Route of exposure inhalative  
 Species rat  
 Dose 1 mg/m<sup>3</sup>  
 evaluation Suspected of causing cancer.

**2,2'-Methylene diphenyldiisocyanate**

Route of exposure inhalative  
 Dose 1 mg/m<sup>3</sup>  
 evaluation Suspected of causing cancer.

**o-(p-Isocyanatobenzyl)phenylisocyanate**

Route of exposure inhalative  
 Dose 1 mg/m<sup>3</sup>  
 evaluation Suspected of causing cancer.

**Methylendiisocyanat**

evaluation Suspected of causing cancer.

**Specific Target Organ Toxicity (STOT)****Single exposure**

Remarks The classification criteria are met.  
 evaluation May cause respiratory irritation.



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

**Repeated exposure**

Remarks The classification criteria are met.  
 evaluation May cause damage to organs through prolonged or repeated exposure

**Specific Target Organ Toxicity (STOT) (Components)****4,4'-Methylenediphenyl diisocyanate****Repeated exposure**

evaluation May cause damage to organs through prolonged or repeated exposure  
 Route of exposure inhalative

Species rat  
 LOAEL 0,23 mg/m<sup>3</sup>

**4,4'-Methylenediphenyl diisocyanate****Single exposure**

evaluation May cause respiratory irritation.  
 Species rat

**2,2'-Methylene diphenyldiisocyanate****Single exposure**

evaluation May cause respiratory irritation.  
 Organs: Lungs

NOAEC 1 mg/m<sup>3</sup>

**2,2'-Methylene diphenyldiisocyanate****Repeated exposure**

evaluation May cause damage to organs through prolonged or repeated exposure  
 Route of exposure inhalative

Organs: Respiratory tract  
 NOAEC 0,2 mg/m<sup>3</sup>

**o-(p-Isocyanatobenzyl)phenylisocyanate****Single exposure**

evaluation May cause respiratory irritation.  
 Route of exposure inhalative

Organs: Respiratory tract  
 NOAEC 1 mg/m<sup>3</sup>

**o-(p-Isocyanatobenzyl)phenylisocyanate****Repeated exposure**

evaluation May cause damage to organs through prolonged or repeated exposure  
 Route of exposure inhalative

Organs: Lungs  
 NOAEC 0,2 mg/m<sup>3</sup>

Remarks Test conducted with a similar formulation.

**Methylenediisocyanat****Single exposure**

evaluation May cause respiratory irritation.

**Methylenediisocyanat****Repeated exposure**

evaluation 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****Endocrine disrupting properties with respect to humans**

Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

## SECTION 12: Ecological information

**12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****4,4'-Methylenediphenyl diisocyanate**

Species	zebra fish ( <i>Brachydanio rerio</i> )			
LL50	>	100		mg/l
Duration of exposure		96	h	
Method	OECD 203			

**Daphnia toxicity (Components)****4,4'-Methylenediphenyl diisocyanate**

Species	Daphnia magna			
EL0		4,3		mg/l
Duration of exposure		48	h	
Method	OECD 202			

**4,4'-Methylenediphenyl diisocyanate**

Species	Daphnia magna			
NOEC	>=	10		mg/l
Duration of exposure		21	d	

**o-(p-Isocyanatobenzyl)phenylisocyanate**

Species	Daphnia magna			
EL0		1,9		mg/l
Duration of exposure		48	h	
Method	OECD 202			

**o-(p-Isocyanatobenzyl)phenylisocyanate**

NOEC	>=	10		mg/l
Duration of exposure		21	d	

**Algae toxicity (Components)****4,4'-Methylenediphenyl diisocyanate**

Species	Desmodesmus subspicatus			
EL50	>	100		mg/l
Duration of exposure		72	h	
Method	OECD 201			

**Bacteria toxicity (Components)****4,4'-Methylenediphenyl diisocyanate**

Species	activated sludge			
EC50	>	50		mg/l
Duration of exposure		3	h	
Method	OECD 209			



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

## 12.2. Persistence and degradability

### General information

not determined

### Ready degradability (Components)

#### 4,4'-Methylenediphenyl diisocyanate

Value	20	%
Duration of test	28	d

#### o-(p-Isocyanatobenzyl)phenylisocyanate

Remarks Test conducted with a similar formulation.

#### 2,2'-Methylene diphenyldiisocyanate

## 12.3. Bioaccumulative potential

### General information

not determined

### Partition coefficient n-octanol/water (log value)

Remarks not determined

### Octanol/water partition coefficient (log Pow) (Components)

#### 4,4'-Methylenediphenyl diisocyanate

log Pow	4,51	
Temperature	22	°C

#### o-(p-Isocyanatobenzyl)phenylisocyanate

log Pow	4,52	
Temperature	22	°C

#### 2,2'-Methylene diphenyldiisocyanate

log Pow	4,52	
Temperature	22	°C

## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### General information

not determined

### Results of PBT and vPvB assessment

The product contains no PBT substances  
The product contains no vPvB substances.

## 12.6 Endocrine disrupting properties

### Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

### General information

not determined

### General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.



Trade name: Modralit 3K Hardener

Substance number: 1618M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Must not be disposed together with household garbage.  
Dispose of waste according to applicable legislation.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-

## SECTION 15: Regulatory information

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

#### Other information

All components are contained in the TSCA inventory or exempted.

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method



Trade name: Modralit 3K Hardener

Substance number: 1618M

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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

**Hazard statements listed in Chapter 2/3**

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.

**CLP categories listed in Chapter 2/3**

Acute Tox. 4	Acute toxicity, Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.