

Trade name: Modralit 3K Basis

Substance number: 1617M

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 Basis

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

#### Use of the substance/preparation

Model material on the basis of polyurethane

### 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  
for this SDS

sicherheitsdatenblatt@dreve.com

### 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)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

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



##### Signal word

Warning

##### Hazard statements



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements**

P264.1 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing.

**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****Chemical characterization**

Polyether polyol, modified

**Hazardous ingredients****Ethylenediamine, propoxylated**

CAS No.	25214-63-5				
Concentration	>= 25	<	50	%	
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319		

**Benzene, C10-13-alkyl derivates**

CAS No.	67774-74-7				
EINECS no.	267-051-0				
Concentration	>= 10	<	25	%	
Classification (Regulation (EC) No. 1272/2008)	Aquatic Acute 1		H400		

**Tris(2-chloro-1-methylethyl)phosphate**

CAS No.	13674-84-5				
Concentration	>= 10	<	25	%	
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 3		H412		

ATE	oral	632	mg/kg
ATE	dermal	2.000	mg/kg

**Tris(2-ethylhexyl)phosphate**

CAS No.	78-42-2				
EINECS no.	201-116-6				
Concentration	>= 10	<	25	%	
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2		H315		



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Eye Irrit. 2

H319

## 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

### 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 case of combustion evolution of dangerous gases possible.

### 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.



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

**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**

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



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 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

#### 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>	cloudy
<b>Odour</b>	characteristic
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Boiling point or initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flammability</b>	
evaluation	not determined
<b>Upper and lower explosive limits</b>	
Remarks	not determined
<b>Flash point</b>	
Value	> 120 °C



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Method DIN 51758

**Ignition temperature**

Value &gt; 500 °C

**Decomposition temperature**

Remarks not determined

**pH value**

Remarks not determined

**Viscosity**

Remarks not determined

**Solubility(ies)**

Remarks not determined

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

Remarks not determined

**Vapour pressure**

Value 0,1 hPa

Temperature 20 °C

**Density and/or relative density**Value 1 g/cm<sup>3</sup>

Temperature 20 °C

**Relative vapour density**

Remarks not determined

**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 not determined

**Oxidising properties**

Remarks not determined

**Solvent content**

Value 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**

Protect from heat and direct sunlight

**10.3. Possibility of hazardous reactions**



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Keep away from oxidising agents, strongly alkaline and strongly acid materials, amines, alcohols and water.

**10.4. Conditions to avoid**

Protect from heat and direct sunlight

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

Irritant gases/vapours

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

ATE	6.320	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****Ethylenediamine, propoxylated**

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 401		

**Benzene, C10-13-alkyl derivates**

Species	rat		
LD50	>	5000	mg/kg

**Tris(2-chloro-1-methylethyl)phosphate**

Species	rat		
LD50	632	to	4200 mg/kg

**Tris(2-ethylhexyl)phosphate**

Species	rat		
LD50	9260		mg/kg

**Acute dermal toxicity**

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

**Acute dermal toxicity (Components)****Ethylenediamine, propoxylated**

Species	rat		
LD50	>	2000	mg/kg

**Benzene, C10-13-alkyl derivates**

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

**Tris(2-chloro-1-methylethyl)phosphate**

Species	rabbit		
LD50	2000		mg/kg

**Acute inhalational toxicity**

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

**Acute inhalative toxicity (Components)****Tris(2-chloro-1-methylethyl)phosphate**



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

Species	rat		
LC50		4,6	mg/l
Duration of exposure		4	h

**Tris(2-ethylhexyl)phosphate**

Species	rat		
LC50		447	mg/m <sup>3</sup>
Duration of exposure		4	h

**Skin corrosion/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

**Skin corrosion/irritation (Components)****Ethylenediamine, propoxylated**

Species	rabbit
evaluation	slight irritant effect - does not require labelling
Method	OECD 404

**Serious eye damage/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

**Serious eye damage/irritation (Components)****Ethylenediamine, propoxylated**

Species	rabbit
evaluation	irritant
Method	OECD 405

**Sensitization**

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

**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**

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

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

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

**Repeated exposure**

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

**Aspiration hazard**

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

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

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**





Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

No toxicological data are available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

not determined

#### Fish toxicity (Components)

##### Ethylenediamine, propoxylated

Species	golden orfe (Leuciscus idus)	
LC50	4600	mg/l
Duration of exposure	96	h
Method	DIN 38412 / Part 15	

##### Ethylenediamine, propoxylated

Species	zebra fish (Brachydanio rerio)	
LC50	4870	mg/l
Duration of exposure	96	h
Method	DIN 38412 / Part 15	

##### Ethylenediamine, propoxylated

Species	golden orfe (Leuciscus idus)	
LC50	2700	mg/l
Duration of exposure	48	h

##### Benzene, C10-13-alkyl derivates

Species	zebra fish (Brachydanio rerio)	
NOEC	> 10	µg/l
Duration of exposure	14	d
Method	OECD 204	

##### Benzene, C10-13-alkyl derivates

Species	zebra fish (Brachydanio rerio)	
NOEC	57,78	µg/l
Duration of exposure	21	d
Method	OECD 203	

##### Tris(2-chloro-1-methylethyl)phosphate

Species	zebra fish (Brachydanio rerio)	
LC50	56	mg/l
Duration of exposure	48	h

#### Daphnia toxicity (Components)

##### Ethylenediamine, propoxylated

Species	Daphnia magna	
EC0	> 100	mg/l
Duration of exposure	48	h

##### Ethylenediamine, propoxylated

NOEC	>= 10	mg/l
Duration of exposure	21	d
Method	OECD 211	

##### Benzene, C10-13-alkyl derivates

Species	Daphnia magna	
EC50	> 0,041	mg/l
Duration of exposure	48	h
Method	Regulation (EC) No. 440/2008, Annex, C.2	



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

**Benzene, C10-13-alkyl derivates**

Species	Daphnia magna		
NOEC	10		mg/l
Duration of exposure	21	d	
Method	OECD 211		

**Tris(2-chloro-1-methylethyl)phosphate**

Species	Daphnia magna		
LC50	40		mg/l
Duration of exposure	21	d	
Method	OECD 202		

**Algae toxicity (Components)****Ethylenediamine, propoxylated**

Species	Scenedesmus subspicatus		
EC50	150,67		mg/l
Duration of exposure	72	h	

**Benzene, C10-13-alkyl derivates**

Species	Scenedesmus subspicatus		
EC50	> 100		µg/l
Duration of exposure	72	h	
Method	OECD 201		

**Tris(2-chloro-1-methylethyl)phosphate**

Species	Pseudokirchneriella subcapitata		
NOEC	13		mg/l
Duration of exposure	72	h	

**Bacteria toxicity (Components)****Ethylenediamine, propoxylated**

Species	activated sludge		
EC50	> 10000		mg/l

**Tris(2-chloro-1-methylethyl)phosphate**

Species	activated sludge		
EC50	784		mg/l

**12.2. Persistence and degradability****General information**

not determined

**Biodegradability (Components)****Tris(2-chloro-1-methylethyl)phosphate**

evaluation Readily biodegradable (according to OECD criteria)

**12.3. Bioaccumulative potential****General information**

not determined

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

Remarks not determined

**Bioconcentration factor (BCF) (Components)****Tris(2-chloro-1-methylethyl)phosphate**

BCF 0,8 to 2,8

**12.4. Mobility in soil****General information**

not determined



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

**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.

**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		-	-



Trade name: Modralit 3K Basis

Substance number: 1617M

Version: 1 / GB

Date revised: 14.09.2023

Replaces Version: - / GB

Print date: 14.09.2023

## 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)

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method

### Hazard statements listed in Chapter 2/3

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 2/3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2

### 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.