

Trade name: Modralit 3K Hardener

Substance number: 1618M Version: 2 / GB Date revised: 12.09.2024

Replaces Version: 1 / GB Print date: 12.09.2024

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 DE-59423 Unna

Telephone no. +49 2303 8807-0 Fax no. +49 2303 8807-29

Information provided

by / telephone

sicherheitsdatenblatt@dreve.com

E-mail address of person responsible

for this SDS

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

Department Research & Development: Fax: +49 2303 8807-562

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



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Signal word

Danger

Hazard statements

H332	Harmful if inhaled.	
H315	Causes skin irritation.	
H310	Causes serious eve in	

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

Supplemental information

EUH204 Contains isocyanates. May produce an allergic reaction.

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



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 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 %

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 >= 20 < 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-lsocyanatobenzyl)phenylisocyanate

CAS No. 5873-54-1 EINECS no. 227-534-9

Registration no. 01-2119480143-45

Concentration >= 5 < 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



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2,2'-Methylene diphenyldiisocyanate

CAS No. 2536-05-2 EINECS no. 219-799-4

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.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, 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.

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



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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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Methylendiisocyanat

Type AGW

Е

Value 0,05 mg/m³

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.



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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

Physical state liquid dark brown Odour putrid

Melting point

Value 41 °C

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Value > 350 °C

Flammability

evaluation not determined

Upper and lower explosive limits

Lower explosion limit 0,4 %(V)
Remarks not determined

Flash point

Value 229 °C Method DIN 51758

Auto-ignition temperature

Value 400 °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

Remarks not determined

Density and/or relative density

Value 1,22 g/cm³

Temperature 20 °C

Method DIN 53217



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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 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



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LD50 49000 mg/kg

4,4'-Methylenediphenyl diisocyanate

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

o-(p-lsocyanatobenzyl)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-lsocyanatobenzyl)phenylisocyanate

> 9400 mg/kg

h

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

Remarks The classification criteria are met.

Acute inhalative toxicity (Components)

4,4'-Methylenediphenyl diisocyanate

Species rat

LC50 368 mg/m³

Duration of exposure 4
Administration/Form Dust/Mist

Administration/Form Dust/Mist Method OECD 403

2,2'-Methylene diphenyldiisocyanate

Species rat (female)

LC50 685,75 mg/m³

Duration of exposure 4 h

Administration/Form Dust/Mist Method OECD 403

2,2'-Methylene diphenyldiisocyanate

Species rat (male)

LC50 527,2 mg/m³

Duration of exposure 4 h

Administration/Form Dust/Mist Method OECD 403

o-(p-lsocyanatobenzyl)phenylisocyanate

Species rat (male)

LC50 387 mg/m³

Duration of exposure 4 h

Administration/Form Dust/Mist
Method OECD 403

o-(p-lsocyanatobenzyl)phenylisocyanate

Species rat (female)

LC50 645 mg/m³



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Duration of exposure 4 h

Administration/Form Dust/Mist

Methylendiisocyanat

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-lsocyanatobenzyl)phenylisocyanate evaluation irritant

Remarks Test conducted with a similar formulation.

Methylendiisocyanat

evaluation irritant 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-lsocyanatobenzyl)phenylisocyanate

evaluation slightly irritant

Remarks Test conducted with a similar formulation.

Methylendiisocyanat

evaluation irritant

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 Species mouse evaluation sensitizing Method OECD 429

2,2'-Methylene diphenyldiisocyanate



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Route of exposure inhalative evaluation sensitizing

Remarks Test conducted with a similar formulation.

o-(p-lsocyanatobenzyl)phenylisocyanate

Route of exposure dermal evaluation sensitizing

Remarks Test conducted with a similar formulation.

o-(p-lsocyanatobenzyl)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 inhalative

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/m³ evaluation Suspected of causing cancer.

2,2'-Methylene diphenyldiisocyanate

Route of exposure inhalative

Dose 1 mg/m³ evaluation Suspected of causing cancer.

o-(p-Isocyanatobenzyl)phenylisocyanateRoute of exposure inhalative

Dose 1 mg/m³ 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.

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)



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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/m³

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/m³

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/m³

o-(p-lsocyanatobenzyl)phenylisocyanate

Single exposure

evaluation May cause respiratory irritation.

Route of exposure inhalative

Organs: Respiratory tract

NOAEC 1 mg/m³

o-(p-lsocyanatobenzyl)phenylisocyanate

Repeated exposure

evaluation May cause damage to organs through prolonged or repeated exposure

Route of exposure inhalative

Organs: Lungs

NOAEC 0,2 mg/m³

Remarks Test conducted with a similar formulation.

Methylendiisocyanat

Single exposure

evaluation May cause respiratory irritation.

Methylendiisocyanat

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

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.



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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 (Brachydanio rerio)

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-lsocyanatobenzyl)phenylisocyanate

Species Daphnia magna

EL0 1,9 mg/l

Duration of exposure 48 h

Method OECD 202

o-(p-lsocyanatobenzyl)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

12.2. Persistence and degradability

General information

not determined

Ready degradability (Components)



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4,4'-Methylenediphenyl diisocyanate

Value 20 %

Duration of test 28 d

o-(p-lsocyanatobenzyl)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-lsocyanatobenzyl)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 envrionment

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



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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		<u>-</u>	-

SECTION 15: Regulatory information

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

Other regulations, restrictions and prohibition regulations

From 24. August 2023, an appropriate training must be provided for industrial or commercial use.

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)

.ioii (LC) 140. 12 <i>121</i> 20	00)	
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



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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.



Trade name: Modralit 3K Basis

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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

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by / telephone

E-mail address of sicherheitsdatenblatt@dreve.com

person responsible 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)

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

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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



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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, CO2, 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.



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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



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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

Physical state liquid cloudy
Odour characteristic

Melting point

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 120 °C



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Method DIN 51758

Ignition temperature

Value > 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/cm³

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



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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



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Species rat

LC50 4,6 mg/l

Duration of exposure 4 h

Tris(2-ethylhexyl)phosphate

Species rat

LC50 447 mg/m³

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

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



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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 μ g/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

ECO > 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



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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

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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 envrionment

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

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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.



Trade name: Modralit 3K Filler

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

1.1. Product identifier

Modralit 3K Filler

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

Use of the substance/preparation

Filler

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 Dep

by / telephone

Department Research & Development: Fax: +49 2303 8807-562

E-mail address of

E-mail address of

sicherheitsdatenblatt@dreve.com

person responsible 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

Voluntary product information following the Safety Data Sheet format This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

No special hazards have to be mentioned.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization



Trade name: Modralit 3K Filler

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Soda-lime-glass

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink.

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, CO2, powders, water spray/mist, Extinguishing measures to suit surroundings

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2. Environmental precautions

Do not allow to enter drains or waterways.



Trade name: Modralit 3K Filler

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6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store product in closed containers.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed and dry.

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

Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary.

Hand protection

Not necessary.

Eye protection

Not necessary.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



Trade name: Modralit 3K Filler

Substance number: 1619M Version: 1 / GB Date revised: 14.09.2023

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Physical state Granules
Colour ivory colours
Odour odourless

Melting point

Value 630 °C

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Remarks Not applicable

Ignition temperature

Remarks not determined

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

Remarks not determined

Density and/or relative density

Value 2,5 g/cm³

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 not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined



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Substance number: 1619M Version: 1 / GB Date revised: 14.09.2023

Replaces Version: - / GB

Bulk density

Value 1,6 kg/m³

Temperature 20 °C

Solids content

Value 100 %

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

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

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 dermal toxicity

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

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

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.



Trade name: Modralit 3K Filler

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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

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

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

This substance does not have endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

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 Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects



Trade name: Modralit 3K Filler

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Replaces Version: - / GB Print date: 14.09.2023

General information

not determined

General information / ecology

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

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.

Safety data sheet in accordance with	Dreve	
Trade name: Modralit 3K Filler		
Substance number: 1619M	Version: 1 / GB	Date revised: 14.09.2023
	Replaces Version: - / GB	Print date: 14.09.2023