



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

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

1.1. Product identifier

Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

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

Use of the substance/preparation

Painting agent

Identified Uses

SU21

Consumer uses: Private households (= general public = consumers)

PC9a

Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no. +49-7141/691-0

Fax no. +49-7141/691-147

Information provided Department product safety

by / telephone

E-mail address of PRSI@marabu.com

person responsible

for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

EUH208 Contains 1,2-Benzisothiazol-3(2h)-one, May produce an allergic reaction.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Chemical characterization

Painting agent based on polyvinyl alcohol and on water

Hazardous ingredients ***

Methanol

CAS No. 67-56-1

EINECS no. 200-659-6

Registration no. 01-2119433307-44

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

Concentration \geq 0,1 < 1 %

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

Flam. Liq. 2	H225
Acute Tox. 3	H331
Acute Tox. 3	H311
Acute Tox. 3	H301
STOT SE 1	H370

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

STOT SE 2	H371	$\geq 3 < 10$
STOT SE 1	H370	≥ 10

Pyridin-2-thiol-1-oxide, sodium salt

CAS No. 3811-73-2

EINECS no. 223-296-5

Concentration \geq 0,001 < 0,1 %

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

Eye Dam. 1	H318
Acute Tox. 4	H302
Acute Tox. 4	H332
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

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

Aquatic Acute 1	H400	M = 100
-----------------	------	---------

1,2-Benzisothiazol-3(2h)-one

CAS No. 2634-33-5

EINECS no. 220-120-9

Concentration < 0,05 %

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

Aquatic Acute 1	H400
Skin Sens. 1	H317
Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
Acute Tox. 2	H330
Aquatic Chronic 2	H411

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

Skin Sens. 1	H317	$\geq 0,05$
--------------	------	-------------

SECTION 4: First aid measures

4.1. Description of first aid measures

After skin contact

Wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

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

After ingestion

Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of symptoms take medical treatment.

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

Until now no symptoms known so far.



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

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 in frostfree conditions.

7.3. Specific end use(s)

Painting agent

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL) ***

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

Methanol

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 260 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 260 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 260 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 260 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 40 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 40 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 50 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 50 mg/m³

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	50	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	50	mg/m ³

Predicted No Effect Concentration (PNEC) ***

Methanol

Type of value	PNEC	
Type	Freshwater	
Concentration	20,8	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	2,08	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1540	mg/l

Type of value	PNEC	
---------------	------	--

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

Type	Sewage treatment plant (STP)	
Concentration	100	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	7,7	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	77	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	100	mg/l

8.2. Exposure controls**Exposure controls**

Provide adequate ventilation.

Respiratory protection

Not necessary.

Hand protection

Not necessary.

In case of intensive contact wear protective gloves.

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

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

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.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Not necessary.

Body protection

Not applicable.

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

Form	liquid
Colour	colourless, clear
Odour	odourless

Odour threshold

Remarks No data available

pH value

Value	6	to	7
Temperature	20	°C	



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C
 Pressure 1.013 hPa
 Source Literature value

Flash point

Remarks Not applicable

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Value appr. 23 hPa
 Temperature 20 °C
 Method Value taken from the literature

Vapour density

Remarks not determined

Density

Value 1,05 g/cm³
 Temperature 20 °C
 Method DIN EN ISO 2811

Solubility in water

Remarks miscible

Ignition temperature

Remarks not determined

Viscosity

Value 900 to 1400 mPa.s
 Temperature 20 °C
 Method Brookfield

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)**1,2-Benzisothiazol-3(2h)-one**

Species	rat		
LD50		1193	mg/kg

Acute dermal toxicity

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute dermal toxicity (Components)**1,2-Benzisothiazol-3(2h)-one**

Species	rat		
LD50		4115	mg/kg

Acute inhalational toxicity

ATE	>	20	mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		
ATE	>	5	mg/l
Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		
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.
---------	---

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.
---------	---



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

Aspiration hazard

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

Experience in practice

Provided all the recommended protective and safety precautions are taken, experience shows that no risk to health can be expected.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

Fish toxicity (Components)

1,2-Benzisothiazol-3(2h)-one

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	2,18		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)

1,2-Benzisothiazol-3(2h)-one

Species	Daphnia magna		
EC50	2,94		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)

1,2-Benzisothiazol-3(2h)-one

Species	Pseudokirchneriella subcapitata		
ErC50	0,11		mg/l
Duration of exposure	72	h	

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.
 Dispose of waste according to applicable legislation.
 Dispose of as hazardous waste.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.
 Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN 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)	-	-	-
Subsidiary risk		-	-
Label			
14.4. Packing group	-	-	-
Transport category	0		
14.5. Environmental hazards	-	no	-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:
 Always transport in closed containers that are upright and secure.
 Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU) 0,73 %



Trade name: Marabu-Krakelee-Medium 50 ml Marabu-Krakelee-Medium 50 ml

Version: 4 / GB

Date revised: 08.01.2020

Substance number: 114005840

Replaces Version: 3 / GB

Print date: 10.01.20

VOC (EU) 7,7 g/l

Other information

The product does not contain substances of very high concern (SVHC).

Other information

- All components are contained in the DSL inventory.
- All components are contained in the ENCS inventory.
- All components are contained in the AICS inventory.
- All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 1	Specific target organ toxicity - single exposure, Category 1

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.
 The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.