

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Berggau
Page 1 of 10

Thinner for RALMO[®] liquid waterproofing ÖKO 1K

Section 1: Identification of the substance/mixture and of the company

1.1 Product identifier

Thinner for RALMO[®] liquid waterproofing ÖKO 1K (Verdünner für RALMO[®]-Flüssigabdichtung ÖKO 1K)
Cleaning thinner for waterproofing (V600) (Reinigungsverdünnung für Abdichtung (V600))

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

recommended use: surface protection / accessories

1.3 Details of the supplier providing the safety data sheet

Company name: Ralmont GmbH
Street: Pavelsbacher Straße 17
Place: D-92361 Berggau
Phone: +49 (0)9181/516 40-20
E-mail: info@ralmont.de - Contact person: Mr. Thomas Eckstein
Internet: <http://www.ralmont.de>

1.4 Emergency number

Poison Control Center Bonn, 24 hours a day, Phone +49(0)228-19240

Section 2: Possible hazards

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3; H226 - Flammable liquids: Category 3; Flammable liquid and vapor.
Acute Tox. 4; H312 - Acute toxicity (dermal): Category 4; Harmful in contact with skin.
Acute Tox. 4; H332 - Acute toxicity (inhalation): Category 4; Harmful by inhalation.
Skin Irrit. 2; H315 - Skin corrosion/irritation: Category 3; Causes skin irritation.
Eye Irrit. 2; H319 - Serious eye damage/irritation: Category 2; Causes serious eye irritation.
STOT SE 3; H335 - Specific target organ toxicity (single exposure): Category 3; May cause respiratory irritation.
STOT SE 3; H336 - Specific target organ toxicity (single exposure): Category 3; May cause drowsiness and dizziness.
TOT RE 2; H373 - Specific target organ toxicity by repeated exposure: Category 2; May cause damage to organs.
by prolonged or repeated exposure.
Asp. Tox. 1; H304 - Aspiration hazard: Category 1; May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP].

Hazard pictograms



Flame (GHS02)



Health hazard (GHS08)



Exclamation mark (GHS07)

Signal word

Danger

Hazard-determining components of labeling

XYLOL ; CAS No.: 1330-20-7

1-METHOXY-2-PROPANOL ; CAS No.: 107-98-2 BUTYLYGLYCOL ; CAS No.: 111-76-2

Safety Data Sheet
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Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Berggau
Page 2 of 10

Hazard statements

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes severe eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.

Safety advice

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.
P260	Do not breathe dust/fume/gas/mist/vapor/aerosol.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF INFECTED: Call a POISON CENTER/doctor immediately.
P331	DO NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove all contaminated clothing immediately. Wash skin with water [or shower].
P403+P235	Keep in a well-ventilated place. Keep cool.

2.3 Other hazards

None

2.4 Additional information

For professional use only.

Section 3: Composition/Information on ingredients

3.2 Mixtures

Chemical characterization

Description

Mixture of substances listed below

Hazardous ingredients

XYLOL; EC No.: 215-535-7; CAS No.:	1330-20-7
Weight fraction :	≥ 50 - < 100 %.
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

1-METHOXY-2-PROPANO ; EC No.: 203-539-1 ; CAS No.:	107-98-2
Weight percentage :	≥ 25 - < 30 %.
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 STOT SE 3 ; H336

2-BUTOXYETHANOL; EC No.: 203-905-0; CAS No.:	111-76-2
Weight fraction:	≥ 10 - < 15 %.
Classification 1272/2008 [CLP]:	Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

ETHYLBENZOL ; EC No.: 202-849-4 ; CAS No. :	100-41-4
Weight percentage :	≥ 1 - < 3 %.
Classification 1272/2008 [CLP] :	Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Aquatic Chronic 3; H412

Additional information

Wording of H- and EUH-phrases: see section 16.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Berggau
Page 3 of 10

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt or if symptoms are present, seek medical advice.

After inhalation

Remove victim to fresh air and keep warm and quiet. If unconscious, place in recovery position and seek medical advice. If breathing is difficult or stopped, give artificial respiration.

In case of skin contact

Immediately remove contaminated, soaked clothing. Wash off with soap and water, rinse.

After eye contact

In case of contact with eyes, rinse immediately with running water for 10 to 15 minutes with the eyelids open and consult an ophthalmologist. Remove contact lenses if possible. Continue rinsing.

After ingestion

Seek medical advice immediately. Do not induce vomiting.

Self-protection of the first aider

First-aider: Pay attention to self-protection!

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

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

Section 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Extinguishing powder Water spray Alcohol-resistant foam

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases possible during heating or in case of fire. Flammable Vapors are heavier than air and spread on the ground. Vapors may form explosive mixtures with air. Reignition possible at great distance.

5.3 Advice for firefighters

Special protective equipment for fire fighting

Use suitable breathing apparatus.

5.4 Additional advice

Do not allow extinguishing water to reach sewers and water bodies. In case of fire, cool endangered containers with water.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. See protective measures in sections 7 and 8.

6.2 Environmental precautions

Do not allow to enter drains or water courses. Do not allow to enter subsoil/soil. In case of pollution of rivers, lakes or sewage systems, inform the relevant authorities in accordance with local legislation.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders). Pick up mechanically and place in suitable containers for disposal.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Bergau
Page 4 of 10

For cleaning

Thoroughly clean contaminated objects and floor in compliance with environmental regulations.

6.4 Reference to other sections

Observe protective regulations (see sections 7 and 8).

Section 7: Handling and storage

7.1 Precautions for safe handling

Observe the usual precautions when handling chemicals. Ensure adequate ventilation.

Protective measures

Fire precautions

Keep away from sources of ignition - Do not smoke.

7.2 Conditions for safe storage, including incompatibilities

Requirements for storage rooms and containers

Keep/store only in the original container. Protect container from damage. Keep container tightly closed. Protect from heat. Protect from direct sunlight.

Information on storage in one common storage facility

Storage class (TRGS 510): 3

Keep away from

food, beverages and animal feed.

7.3 Specific end use

Observe technical data sheet.

Industry solutions

Giscode: GG60 , Basic cleaner, irritant, solvent based with H-substances.

Section 8: Exposure controls/personal protection equipment

8.1 Parameters to be monitored

Occupational exposure limits

XYLOL; CAS No.: 1330-20-7

Limit value type (country of origin): TRGS 900 (D)
Limit value: 100 ppm / 440 mg/m³
Peak limit: 2(II)
Remark: H
Version: 29.03.2019

Limit value type (country of origin: STEL (EC)
Limit value: 100 ppm / 442 mg/m³
Remark: H
Version: 31.01.2018

Limit type (country of origin): TWA (EC)
Limit value: 50 ppm / 221 mg/m³
Remark: H
Version: 31.01.2018

1-METHOXY-2-PROPANOL; CAS No.: 107-98-2
Limit value type (country of origin): TRGS 900 (D)
Limit value: 100 ppm / 370 mg/m³
Peak limit: 2(I)
Remark: Y
Version: 29.03.2019

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Berggau
Page 5 of 10

Limit Type (Country of Origin):	STEL (EC)
Limit value:	150 ppm / 568 mg/m ³
Remark:	H
Version:	31.01.2018
Limit type (country of origin):	TWA (EC)
Limit value:	100 ppm / 375 mg/m ³
Remark:	H
Version:	31.01.2018
2-BUTOXYETHANOL; CAS No.:	111-76-2
Limit type (country of origin):	TRGS 900 (D)
Limit value:	10 ppm / 49 mg/m ³
Peak limit:	2(II)
Remark:	H,Y
Version:	29.03.2019
Limit type (country of origin):	STEL (EC)
Limit value:	50 ppm / 246 mg/m ³
Remark:	H
Version:	31.01.2018
Limit type (country of origin):	TWA (EC)
Limit value:	20 ppm / 98 mg/m ³
Remark:	H
Version:	31.01.2018
ETHYLBENZOL; CAS No.:	100-41-4
Limit type (country of origin):	TRGS 900 (D)
Limit value:	20 ppm / 88 mg/m ³
Peak limit:	2(II)
Remark:	H, Y
Version:	29.03.2019
Limit type (country of origin):	STEL (EC)
Limit value: 2	00 ppm / 884 mg/m ³
Remark:	H
Version:	31.01.2018
Limit type (country of origin):	TWA (EC)
Limit value:	100 ppm / 442 mg/m ³
Remark:	H
Version:	31.01.2018

Information about the occupational exposure limit value according to RCP method according to TRGS 900 (D)

Limit value type (country of origin):	Calculated RCP workplace limit value (D)
Limit value:	not relevant

Biological limit values

XYLOL; CAS No.:	1330-20-7
Limit type (country of origin):	TRGS 903 (D)
Parameter:	Methylhippuric (toluric) acid / urine (U) / end of exposure or end of shift
Limit value:	2000 mg/l
Version:	29.03.2019
1-METHOXY-2-PROPANOL; CAS No.:	107-98-2
Limit type (country of origin):	TRGS 903 (D)
Parameter:	1-methoxy-2-propanol / urine (U) / end of exposure or end of shift
Limit value:	15 mg/l
Version:	29.03.2019

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Berggau
Page 6 of 10

2-BUTOXYETHANOL; CAS No. :	111-76-2
Limit type (country of origin):	TRGS 903 (D)
Parameter:	Butoxyacetic acid / Urine (U) / In case of long-term exposure: after several previous shifts
Limit value:	100 mg/l
Version:	29.03.2019
Limit type (country of origin):	TRGS 903 (D)
Parameter:	Butoxyacetic acid / urine (U) / end of exposure or end of shift;
In case of long-term exposure:	after several preceding shifts.
Limit value:	150 mg/g Kr
Version:	29.03.2019
ETHYLBENZOL ; CAS No.:	100-41-4
Limit type (country of origin):	TRGS 903 (D)
Parameter:	Mandelic acid+phenylglyoxylic acid / urine (U) / end of exposure or end of shift.
Limit value:	250 mg/g Kr
Version:	29.03.2019

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use safety goggles.

Skin protection

Hand protection

Use protective gloves. Wear cotton undergloves if possible.

Suitable material: PVC (polyvinyl chloride) NBR (nitrile rubber) Butyl rubber

Body protection

Appropriate work clothing

Respiratory protection

No measures required if well ventilated or outdoors.

General protective and hygienic measures

Do not eat, drink, smoke or snort at the workplace. Avoid contact with skin, eyes and clothing.

Wash hands during breaks and at the end of work.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Color: See product description

Odor

characteristic

Safety relevant basic data

Initial boiling point and boiling range:	(1013 hPa)	> 35 °C
Flash point:		24 °C
Lower explosion limit:		1 Vol-%
Upper explosion limit:		13,7 Vol-%
Vapor pressure:	(50 °C)	< 100 hPa
Density:	(20 °C)	0,9 g/cm ³
Run-out time:	(20 °C)	approx. 12 s DIN cup 4 mm
Maximum VOC content (EC):		100 % by weight
Maximum VOC content (Switzerland):		100 % by weight
VOC value:		872 g/l DIN ISO 11890

9.2 Other data

None

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Bergau
Page 7 of 10

Section 10: Stability and reactivity

10.1 Reactivity

The product is stable when stored at normal ambient temperatures.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions will occur if handled and stored as directed.

10.4 Conditions to avoid

No hazardous reactions will occur if handled and stored as directed.

10.5 Incompatible materials

Oxidizing agents, strong. Acid

10.6 Hazardous decomposition products

Stable when used in accordance with recommended storage and handling procedures (see section 7).

Will not decompose in the intended use.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicit

Parameter:	LD50 (XYLOL ; CAS No.: 1330-20-7)
Route of exposure:	Oral
Species:	Rat
Effective dose:	8700 mg/kg
Parameter:	LD50 (1-METHOXY-2-PROPANOL ; CAS No.: 107-98-2)
Route of exposure:	Oral
Species:	Rat
Effective dose:	5660 mg/kg
Parameter:	LD50 (2-BUTOXYETHANOL ; CAS No.: 111-76-2)
Route of exposure:	Oral
Species:	Rat
Effective dose:	1480 mg/kg
Parameter:	LD50 (ETHYLBENZOL ; CAS No.: 100-41-4)
Route of exposure:	Oral
Species:	Rat
Effective dose:	3500 mg/kg

Acute dermal toxicity

Parameter:	LD50 (XYLOL ; CAS No.: 1330-20-7)
Route of exposure:	Dermal
Species:	Rabbit
Effective dose:	2000 mg/kg
Parameter:	LD50 (1-METHOXY-2-PROPANOL ; CAS No.: 107-98-2)
Route of exposure:	Dermal
Species:	Rabbit
Effective dose: 9	999.99 mg/kg
Parameter:	LD50 (ETHYLBENZOL ; CAS No.: 100-41-4)
Route of exposure:	Dermal
Species:	Rabbit
Effective dose:	5000 mg/kg

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Bergau
Page 8 of 10

Acute inhalation toxicity

Parameter: LC50 (XYLOL ; CAS No.: 1330-20-7)
Route of exposure: Inhalation
Species: Rat
Effective dose: 6350 mg/l
Parameter: LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route: Inhalation
Species: Rat
Effective dose: 500 ppm
Parameter: LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure Route: Inhalation
Species: Mouse
Effective dose: 700 ppm

Irritation and corrosivity

Primary irritant effect on skin

Irritating to skin.

Irritation to eyes

Irritating to eyes.

Sensitization

No sensitizing effect known or expected.

CMR effects (carcinogenic, mutagenic and toxic for reproduction)

No information available.

11.5 Additional information

The classification was made according to the calculation method of the preparation directive (1999/45/EC).

Section 12: Environmental information

Do not allow to enter waters or drains.

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No information is available.

12.7 Additional ecotoxicological information

None

Section 13: Notes on disposal

13.1 Waste treatment procedures

Disposal of the product/packaging

Dispose of in accordance with official regulations. Contaminated packaging must be emptied of its contents. They can then be recycled after appropriate cleaning. Uncleaned packaging must be disposed of in the same way as the substance.

Waste code/waste designation according to EAK/AVV

EWC No. 080111 Waste paints and varnishes containing organic solvents or other dangerous substances.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Bergau
Page 9 of 10

Section 14: Transport information

14.1 UN number

UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S. (XYLENE - 1-METHOXY-2-PROPANOL)

Sea transport (IMDG)

FLAMMABLE LIQUID, N.O.S. (XYLENE - 1-METHOXY-2-PROPANOL)

Air transport (ICAO-TI / IATA-DGR)

FLAMMABLE LIQUID, N.O.S. (XYLENE - 1-METHOXY-2-PROPANOL)

14.3 Transport hazard classes

Land transport (ADR/RID)

Class(es): 3
Classification Code: F1
Hazard No. (Kemler number): 30
Tunnel restriction code: D/E
Special regulations: LQ 5 I - E 1
Hazard label: 3

Sea transport (IMDG)

Class(es): 3
EmS-No.: F-E / S-E
Special regulations: LQ 5 I - E 1
Hazard label: 3

Air transport (ICAO-TI / IATA-DGR)

Class(es): 3
Special regulations: E 1
Hazard label: 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID): No
Sea transport (IMDG): No
Air transport (ICAO-TI / IATA-DGR): No

14.6 Special precautions for user

See section 6- 8.

Section 15: Legal regulations

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

EU regulations

Authorizations and/or restrictions of use

Restrictions of use

Restriction of use according to REACH Annex XVII No: 3, 40

National regulations

Technical Instructions on Air Quality Control (TA-Luft)

Percentage by weight (No. 5.2.5. I): 5 - 10 %.

Water hazard class (WGK)

Classification according to AwSV - Class: 2 (Significantly hazardous to water)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Revised on: 05.09.2019
Version (Revision): 6.0.0 (5.0.0)
Printdate: 18.11.2019

Ralmont GmbH
92361 Berggau
Page 10 of 10

Other regulations, restrictions and prohibitions

Ordinance on Industrial Safety and Health (BetrSichV)

Classification according to Betriebssicherheitsverordnung (BetrSichV): flammable

Austria

Ordinance on Flammable Liquids - VbF

VbF class: All

15.2 Chemical safety assessment

No information available.

Section 16: Other information

16.1 Amendment information

Labelling according to Regulation (EC) No 1272/2008 [CLP].

16.2 Abbreviations and acronyms

None

16.3 Important literature references and data sources

None

16.4 Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].

No information available.

16.5 Wording of H and EUH phrases (number and full text)

Relevant H-phrases: This H-phrases applies to the ingredient(s) and does not necessarily indicate the classification of the preparation

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes severe eye irritation.
H332	Harmful by inhalation.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The information in this safety data sheet is correct to the best of our knowledge at the time of printing. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials, or is subjected to treatment, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise. (The data of the hazardous ingredients were taken from the latest valid safety data sheet of the upstream supplier).