

**Safety data sheet**  
according to No. 1907/2006

Print date: 15.07.2020  
Revised on: 25.06.2020  
Version : 1.0

Ralmont GmbH  
92361 Berggau  
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## RALMO-DÄMM healthy living

### Section 1: Name of the substance or mixture and the company

**1.1 Product identifier:**

Tradename: RALMO-DÄMM healthy living

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

Product use: Polyurethane foam

**1.3 Details of the supplier who provides the safety data sheet:**

Company name: Ralmont GmbH  
Street: Pavelsbacher Straße 17  
City: D-92361 Berggau  
Telephone: +49 (0)9181 5120240 · Telefax: + 49 (0)9181 5120241  
E-Mail: info@ralmont.de · Contact Person: Mr. Thomas Eckstein  
Internet: <http://www.ralmont.de>

**1.4 Emergency number** Poison center Bonn, 24 hours daily, Tel. +49(0) 228-19240

### Section 2: Hazard Identification

**2.1 Classification of the substance or mixture:**

**Classification (REGULATION (EG) No. 1272/2008)**

Aerosols, Category 1 H222: Extremely flammable aerosol.  
H229: Pressurized container: May burst if heated.

**2.2 Label elements:**

**Labelling (REGULATION (EG) No. 1272/2008)**

Hazard pictograms:



Signal word: Danger  
Hazard statements: H222 Extremely flammable aerosol.  
H229 Pressurized container: May burst if heated.  
Precautionary Statements: P101 If medical advice is needed, have container or label at hand.  
P102 Keep out of the reach of children.

**Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
Do not smoke.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.

**Storage:**

P410 + P412 Protect from direct sunlight and do not expose to temperatures exceeding 50 °C / 122 °F.

**Additional labeling:**

EUH204 Contains isocyanates. Can cause allergic reactions.

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### 2.3 Other dangers:

This substance / mixture does not contain any components in concentrations of 0.1% or higher that are either classified as persistent, bio accumulative and toxic (PBT) or very persistent and very bio accumulative (vPvB).

## Section 3: Composition/ information on ingredients

### 3.2 Mixtures:

#### Ingredients

Chemical name	CAS-No. EG-No. Registration number	Classification	Concentration (% w/w)
2,2'-Dimorpholinyl-diethylether	6425-39-4 229-194-7 01-2119969278-20-XXXX	Eye Irrit. 2; H319	>= 1 - < 2,5
m-Tolylidendiisocyanate	26471-62-5 247-722-4 01-2119454791-34-XXXX	Carc. 2; H351 Acute Tox. 1; H330 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0,025 - < 0,1

Substances with a workplace exposure limit:

Dimethyl ether	115-10-6 204-065-8 01-2119472128-37-XXXX	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 10 - < 20
Isobutane	75-28-5 200-857-2 01-2119485395-27-XXXX	Flam. Gas 1; H220	>= 5 - < 10
Propane	74-98-6 200-827-9 01-2119486944-21-XXXX	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 2,5 - < 5

## Section 4: First aid measures

### 4.1 Description of first aid measures:

General information:	Take affected persons out of the danger area. Consult a doctor. Show this safety data sheet to the doctor in attendance.
After inhalation:	Move to fresh air.
After skin contact:	Take off contaminated clothing and shoes immediately. Wash with soap and lots of water.
After eye contact:	Remove contact lenses. Keep your eyes wide open when rinsing. If eye irritation persists, consult a specialist.
After swallowing:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything orally to an unconscious person.

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#### 4.2 Important acute symptoms and delayed symptoms:

Symptoms: See section 11 for more detailed health information  
Effects and symptoms.  
Risks: No particular effects or hazards known.

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

Treatment: Symptomatic treatment.

### Section 5: Firefighting measures

#### 5.1 Extinguishing media:

Suitable extinguishing media: In the event of fire, to extinguish water / water spray / water jet / carbon dioxide / use sand / foam / alcohol-resistant foam / dry powder.  
Unsuitable extinguishing media: water

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

Hazardous combustion products: Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)

#### 5.3 Advice for firefighting:

Special protective equipment for fire-fighters:  
In the event of fire, wear self-contained breathing apparatus.  
Further information: Use water spray to cool closed containers.

### Section 6: Accidental release measures

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

Personal precautions: Use personal protective equipment.  
Deny access to unprotected persons.

#### 6.2 Environmental protection measures:

None

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

Methods for cleaning up: Allow to solidify and take up mechanically.

#### 6.4 Reference to other sections:

Personal protective equipment, see section. 8.

### Section 7: Handling and storage

#### 7.1 Precautions for safe handling:

Advice on safe handling: Avoid exceeding the specified occupational exposure limit values (AGW) (see section 8).  
Personal protective equipment, see section. 8.  
Do not eat, drink or smoke in the area of application.  
Take measures against electrostatic discharge.  
Open container carefully as contents may be under pressure.  
The general hygiene measures when handling chemicals are to be observed.

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**Advice on protection against fire and explosion:**

Keep away from heat / sparks / open flames / hot surfaces.  
 Do not smoke. Do not spray into a flame or onto a glowing object.  
 Take precautionary measures to avoid electrostatic discharge.

**Hygiene measures:**

The usual precautionary measures when handling chemicals are to be observed.  
 Do not eat and drink during work.  
 Do not smoke while working. Wash hands before breaks and at the end of work.

**7.2 Conditions for safe storage taking into account incompatibilities:**

**Requirements for storage rooms and containers:**

The container is under pressure.  
 Protect from direct sunlight and temperatures above 50 ° C.  
 Do not crack open or set fire to after using.  
 Do not spray into a flame or onto ember.  
 Store in the original container.  
 Keep container tightly closed in a dry, well-ventilated place.  
 Notes on the label. Store in accordance with local regulations.

**Storage class (TRGS 510):**

2B, aerosol dispensers and lighters

**More information about the storage stability:**

No decomposition if stored and used as directed.

**7.3 Specific end uses:**

Specific use (s): Read current product data sheet before use.

## Section 8: Exposure controls / personal protection

**8.1 Parameters to be monitored:**

**Limits for occupational exposure:**

Ingredients	CAS-No.	Value type (type of Exposure)	Control parameters *	Basis *
Dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>	2000/39/EC
Further information: indicative				
		AGW	1.000 ppm 1.900 mg/m <sup>3</sup>	DE TRGS 900

Peak limitation: excursion factor (category): 8; (II)

Further information: Senate commission for the testing of hazardous substances of the DFG (MAK commission), European Union (An air limit value has been set by the EU: deviations in value and peak limitation are possible.)				
Isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900
Peak limitation: excursion factor (category): 4; (II)				
Further information: Senate commission for the testing of harmful substances of the DFG(MAK Commission)				
Propane	74-98-6	AGW	1.000 ppm 1.800 mg/m <sup>3</sup>	DE TRGS 900
Peak limitation: excursion factor (category): 4; (II)				
Further information: Senate commission for the testing of harmful substances of the DFG(MAK Commission)				
m-Tolylidendiisocyanate	26471-62-5	AGW	0,005 ppm 0,035 mg/m <sup>3</sup>	TRGS 430
Peak limitation: excursion factor (category): 1; = 4 = (I)				
Further information: The occupational exposure limit usually only applies to the monomers. For the assessment of oligomers or polymers, see TRGS 430, 'Isocyanate', Respiratory Sensitizing Substance, Committee for Hazardous Substances. For the 2,4- / 2,6-TDI isomer mixture, the AGW of the individual isomers 2,4-TDI and 2,6-TDI are to be used.				

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Ingredients	CAS-No.	Value type (type of Exposure)	Control parameters *	Basics *
		AGW (vapor und aerosoles)	0,005 ppm 0,035 mg/m <sup>3</sup>	DE TRGS 900
Peak limitation: excursion factor (category): 1; = 4 = (I)				
Further information: Committee for hazardous substances, sum of vapor and aerosols, the occupational exposure limit applies usually only for the monomers. For the assessment of oligomers or polymers see TRGS 430 "Isocyanate", respiratory sensitizing substance.				
		AGW	0,005 ppm 0,035 mg/m <sup>3</sup>	DE TRGS 900

\* The above values correspond to the current legislation on the release date of the data sheet.

## 8.2 Exposure limit and monitoring exposure:

### Personal protection equipment:

- Eye protection: Safety glasses with side protection according to EN 166  
 Eye wash bottle with pure water
- Hand protection: When handling chemical products must be chemical-resistant  
 Gloves (EN 374) must be worn.  
 Manufacturer's instructions are to be observed.  
 Suitable for short-term work or as a splash guard: Gloves off  
 Butyl rubber / nitrile rubber (> 0.1 mm)  
 Change and dispose of contaminated gloves immediately.  
 With permanent product contact:  
 Viton gloves (0.4 mm)  
 Penetration time > 30 min.
- Skin and body protection: Protective work clothing (e.g. safety shoes according to EN ISO 20345, long-sleeved work clothing, long trousers).
- Respiratory protection: In case of insufficient ventilation wear respiratory protection.  
 The selection of respiratory masks (EN 14387) must be based on the known or the concentrations to be assumed, the dangers of the product and the Set the occupational exposure limit values (Section 8.1) of the respiratory protection mask in question.  
 Filter against organic vapors (type A) and particles: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm  
 P1: inert substance; P2, P3: dangerous substances  
 Ensure sufficient ventilation, especially in closed rooms.  
 Appropriate, tested breathing apparatus must be worn at concentrations above the AGW values.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

- Appearance: aerosol  
 Color: white  
 Odor: like ether  
 Odor threshold: No data available  
 pH value: Not applicable  
 Melting point / melting range / freezing point: No data available  
 Boiling point / boiling range: No data available  
 Flash point: Not applicable  
 Evaporation rate: No data available

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Flammability (solid, gaseous):	Extremely flammable aerosol
Upper explosion limit / Upper flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	No data available
Vapor pressure:	5100 hPa
Relative vapor density:	No data available
Density:	0.92 g / cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility:	No data available
Solubility in others Solvents No:	No data available
Partition coefficient:	No data available
Octanol / water Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity Viscosity, dynamic:	No data available
Viscosity, kinematic:	Not applicable
Explosive properties:	No data available
Oxidising properties:	No data available

### 9.2 Additional information:

No data available

## Section 10: Stability and reactivity

### 10.1 Reactivity:

No dangerous reactions known under normal conditions.

### 10.2 Chemical stability:

The product is chemically stable.

### 10.3 Possibility of hazardous reactions:

Hazardous reactions: Stable under specified storage conditions.

### 10.4 Conditions to avoid:

Conditions to Avoid: Heat, flames and sparks.  
Avoid moisture.

### 10.5 Incompatible materials:

Substances to be avoided: Oxidizing agents

### 10.6 Hazardous decomposition products:

No decomposition if stored and applied as directed.

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### Section 11: Toxicological information

#### 11.1 Information on toxicological effects:

**Acute toxicity:**

Not classified based on the information available.

**Ingredients:****m-Tolyldiisocyanat:**

Acute inhalation toxicity: LC50 (rat): 0.107 mg / l  
Exposure time: 4 h  
Test atmosphere: steam

**Irritation and etch effects on the skin**

Not classified based on the information available.

**Heavy eye irritation**

Not classified based on the information available.

**Sensitization of the respiratory system and skin****Sensitization through skin contact**

Not classified based on the information available.

**Sensitization through respiration**

Not classified based on the information available.

**Germ cell mutagenicity**

Not classified based on the information available.

**Carcinogenicity**

Not classified based on the information available.

**Reproduction toxicity:**

Not classified based on the information available.

**Specific target organ toxicity at single exposure**

Not classified based on the information available.

**Specific target organ toxicity at multiple exposures**

Not classified based on the information available.

**Aspiration toxicity**

Not classified based on the information available.

### Section 12: Ecological information

#### 12.1 Toxicity:

No data available

#### 12.2 Persistence and degradability:

No data available

#### 12.3 Bio accumulative potential

No data available

#### 12.4 Mobility in soil:

No data available

#### 12.5 Results of PBT- and vPvB-assessment:

**Product:**

Assessment: This substance / mixture does not contain any components in concentrations of 0.1% or higher, which are classified as either persistent, bio accumulative and toxic (PBT) or very persistent and very bio accumulative (vPvB) ..

#### 12.6 Other harmful effects:

**Product:**

Additional ecological information: There is no data available for this product.

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### Section 13: Disposal considerations

#### 13.1 Waste treatment methods:

Product: The generation of waste should be avoided or minimized wherever possible.  
Empty containers and liners may contain product residue.  
Waste and containers must be disposed of in a safe manner.  
Dispose of surpluses and products not suitable for recycling via a recognized waste disposal company.  
This product and its solutions and by-products must be disposed of at all times in compliance with environmental protection requirements and waste disposal laws, as well as the requirements of local authorities.  
Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains and sewers.  
Free recycling by PDR Recycling GmbH + Co KG.  
Free information at 0800-7836736

### Section 14: Transport information

#### 14.1 UN number:

**ADR:** UN 1950  
**IMDG:** UN 1950  
**IATA:** UN 1950

#### 14.2 UN proper shipping name:

**ADR:** AEROSOLS  
**IMDG:** AEROSOLS  
**IATA:** Aerosols, flammable

#### 14.3 Transport hazard classes:

**ADR:** 2  
**IMDG:** 2.1  
**IATA:** 2.1

#### 14.4 Packing group:

**ADR**  
Packing group: Not determined by regulation  
Classificationcode: 5F  
Danger label: 2.1  
Tunnel restriction code : (D)

##### **IMDG**

Packing group: Not determined by regulation  
Danger label: 2.1  
EmS code: F-D, S-U

##### **IATA (Fracht)**

Packing instruction  
(cargo aircraft): 203  
Packing instruction (LQ): Y203  
Packing group: Not determined by regulation  
Danger label: Flammable Gas

##### **IATA (Passagier)**

Packing instruction  
(cargo aircraft): 203  
Packing instruction (LQ): Y203  
Packing group: Not determined by regulation  
Danger label: Flammable Gas



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#### 14.5 Environmental hazards:

##### ADR

Environmentally hazardous: no

##### IMDG

Marine pollutant : no

##### IATA (Passagier)

Environmentally hazardous: no

##### IATA (Fracht)

Environmentally hazardous: no

#### 14.6 Special precautions for users:

The transport classification (s) provided herein is / are intended for informational purposes only and are based solely on the properties of the unpackaged material as described in this safety data sheet. Transport classifications can vary with the means of transport, the packaging size and deviations in regional or country regulations.

#### 14.7 Transport in bulk according to Annex II of MARPOL73 / 78 and the IBC Code

Does not apply to product as shipped.

## Section 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):	Not applicable
International Chemical Weapons Convention (CWC) Lists of toxic chemicals and precursors:	Not applicable
Regulation (EC) No. 649/2012 of the European Parliament and of the Council on the export and import of dangerous chemicals:	Not applicable
REACH - List of substances of very high concern eligible for authorization (Article 59):	None of the components are listed (=> 0.1%)
REACH - List of substances subject to authorization (Annex XIV):	Not applicable
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (new version):	Not applicable
REACH information:	<p>The substances contained in our products are</p> <ul style="list-style-type: none"> <li>- registered by our suppliers and / or</li> <li>- registered by us and / or</li> <li>- excluded from the REACH regulation and / or</li> <li>- are subject to the REACH regulation, but are exempt from the obligation to register.</li> </ul>
Seveso III: Directive 2012/18 / EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	
P3a	FLAMMABLE AEROSOLS

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Water hazard class: WGK 2 clearly hazardous to water  
Classification according to AwSV, Appendix 1 (5.2)

Volatile organic compounds: Ordinance on the incentive tax on volatile organic compounds (VOCV)  
Volatile organic compounds (VOC) content: 25.36%

Directive 2010/75 / EU of the European Parliament and of the Council of November 24, 2010  
on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 25.36%

**Other regulations:**

75/324/EWG  
The product is not subject to the Chemicals Prohibition Ordinance.

**15.2 Chemical safety assessment:**

No chemical safety assessment was carried out for this mixture.

### Section 16: Other information

**Wording of the H- clause**

H220 : Extremely flammable gas.  
H280 : Contains gas under pressure; can explode if heated.  
H315 : Causes skin irritation.  
H317 : Can cause allergic reactions to your skin.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 : May cause respiratory irritation.  
H351 : Suspected of causing cancer.  
H412 : Harmful to aquatic life with long lasting effects.

**Wording of other abbreviations:**

Acute Tox.: Acute toxicity  
Aquatic Chronic: Long-term (chronically) hazardous to the aquatic environment  
Carc.: Carcinogenicity  
Eye Irrit.: Eye irritation  
Flam. Gas: Flammable gases  
Press. Gas: Gases under pressure  
Resp. Sens.: Sensitization through inhalation  
Skin Irrit.: Irritant effect on the skin  
Skin Sens.: Sensitization through skin contact  
STOT SE: Specific Target Organ Toxicity - single exposure  
2000/39/EC: Commission Directive 2000/39 / EC establishing a first list of indicative occupational exposure limit values  
DE TRGS 900: TRGS 900 - occupational exposure limit values  
TRGS 430: TRGS 430. isocyanates  
2000/39/EC / TWA: Limit - 8 hours  
DE TRGS 900 / AGW: Occupational exposure limit  
TRGS 430 / AGW: Occupational exposure limit  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS: Chemical Abstracts Service  
DNEL: Derived no-effect level  
EC50: Half maximal effective concentration  
GHS: Globally Harmonized System  
IATA: International Air Transport Association  
IMDG: International Maritime Code for Dangerous Goods  
LD50: Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)

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LC50: Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)  
MARPOL: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978  
OEL: Occupational Exposure Limit  
PBT: Persistent, bio accumulative and toxic  
PNEC: Predicted no effect concentration  
REACH: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency  
SVHC: Substances of Very High Concern  
vPvB : Very persistent and very bio accumulative

**Additional information**

**Classification of the mixture:**

Aerosol 1 H222, H229

**Classification procedure:**

Based on product data or assessment

The information contained in this safety data sheet corresponds to our level of knowledge at the time of publication. They do not represent guaranteed properties. With regard to warranty, only the corresponding product data sheets and the general conditions of sale apply. Observe product data sheets before use and processing.

Changes compared to the last edition!

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*(The data on the hazardous ingredients were taken from the most recent safety data sheet of the upstream supplier.)*