

Safety Data Sheet
according to Regulation (EC) 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 SFM PU FOAM

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

1.1 Product identifier:

Trade name: RALMO[®]-DÄMM SFM PU Schaum

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

Product use: polyurethane foam

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Company name: Ralmont GmbH
Street: Pavelsbacher Straße 17
Place: D-92361 Berggau
Phone: +49 (0)9181 5120240 - Fax: +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 (EC) No 1272/2008)

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

2.2 Labeling elements

Labeling (REGULATION (EC) 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 Keep out of sunlight and do not expose to temperatures exceeding 50 °C/ 122 °F.

Additional labeling:

EUH204 Contains isocyanates. May cause allergic reactions.

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2.3 Other hazards

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (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-Tolylidenediisocyanate	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 :			
Dimethylether	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 the problems are persistent, consult a doctor.

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 information on health effects and symptoms.
Risks: No particular effects or hazards known.

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

Treatment: Symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: In case of fire, use water/spray/water jet/carbon dioxide/sand/foam/alcohol-resistant foam/extinguishing powder.

Unsuitable extinguishing media: Water

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Hydrogen cyanide (hydrocyanic acid)

5.3 Advice for firefighting:

Special protective equipment: In case 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:

6.3 Methods and material for containment and cleaning up:

Cleaning procedure: Allow to solidify and pick 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 limits (OEL). (see section 8).
For 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.
Observe the general hygiene measures for handling chemicals.

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Advice on protection against fire: Keep away from heat/ sparks/ open flame/ hot surfaces.
 Do not smoke. Do not spray on flame or on glowing object.
 Take precautions to avoid electrostatic discharge.

Hygiene measures: Observe the usual precautions when handling chemicals.
 Do not eat or drink while working. Do not smoke during work. 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: Container is under pressure. Protect from sunlight and temperatures above 50 °C.
 Do not open by force or burn even after use.
 Do not spray on a flame or glowing object.
 Store in the original container.
 Keep container tightly closed in a dry, well-ventilated place.
 Follow label directions. Store according to local regulations.

Storage class (TRGS 510): 2B, aerosol dispensers and lighters.

Further information on

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)	To be monitored Parameter *	Basis *
Dimethylether	115-10-6	TWA	1.000 ppm 1.920 mg/m ³	2000/39/EC
Further information: Indicative				
		AGW	1.000 ppm 1.900 mg/m ³	DE TRGS 900
Peak limitation: Exceedance factor (category): 8;(II)				
Further information: Senate Commission for the Examination of Harmful 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 ³	DE TRGS 900
Peak limitation: Exceedance 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 ³	DE TRGS 900
Peak limitation: Exceedance factor (category): 4;(II)				
Further information: DFG Senate Commission for the Testing of Substances Hazardous to Health (MAK Commission)				
m-Tolyldenediisocyanate	26471-62-5	AGW	0,005 ppm 0,035 mg/m ³	TRGS 430
Peak limitation: Exceedance factor (category): 1;=4=(I)				
Further information: The occupational exposure limit value generally applies only to the monomers. For evaluation of oligomers or polymers see TRGS 430, Isocyanates', 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)	To be monitored Parameter *	Basis *
		AGW (Vapor and aerosols)	0,005 ppm 0,035 mg/m ³	DE TRGS 900
Peak limitation: Exceedance factor (category): 1;=4=(I)				
Further information: Committee on Hazardous Substances, Sum of vapor and aerosols., The occupational exposure limit value applies as a rule only to the monomers. For evaluation of oligomers or polymers see TRGS 430, Isocyanates, Respiratory sensitizing substance				
		AGW	0,005 ppm 0,035 mg/m ³	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
- Handschutz: Chemical-resistant gloves (EN 374) must be worn when handling chemical products.
 Manufacturer's instructions must be observed.
 Suitable for short-term work or as splash protection:
 Gloves made of butyl rubber/nitrile rubber (> 0.1 mm).
 Change contaminated gloves immediately and dispose of them.
 In case of permanent product contact:
 Gloves made of Viton (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: Wear respiratory protection in case of insufficient ventilation.
 The selection of respirators (EN 14387) must be based on the known or assumed exposure concentrations, the hazards of the product and the occupational exposure limits (section 8.1) of the respirator in question.
 Filters against organic vapors (type A) and particles: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
 P1: inert substance; P2, P3: hazardous substances
 Provide adequate ventilation, especially in enclosed spaces.
 At concentrations above AGW values, wear appropriate approved respirator.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- Appearance: Aerosol
 Color: White
 Odor: Ether
 Odor threshold: No data available
 pH: Not applicable
 Melting point/Melting range / freezing point: No data available
 Boiling point/Boiling range: No data available
 Flash point: Not applicable
 Evaporation rate:
 Vaporization 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/cm³ (20 °C)
Solubility(s)
Solubility in water: No data available
Solubility in other solvents
Solubility in other solvents: No data available
Partition coefficient: n- 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
Oxidizing 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:

Materials to avoid: Oxidizing agents

10.6 Hazardous decomposition products:

No decomposition if stored and used as directed.

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Section 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

Not classified according to available information.

Ingredients:

m-tolylidene diisocyanate:

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

Skin corrosion/irritation.

Not classified based on available information.

Serious eye damage/irritation

Not classified according to the available information.

Respiratory/skin sensitization

Sensitization by skin contact

Not classified according to available information.

Sensitization by inhalation

Not classified according to available information.

Germ cell mutagenicity

Not classified according to available information.

Carcinogenicity

Not classified according to available information.

Reproductive toxicity

Not classified according to the available information.

Specific target organ toxicity single exposure

Not classified according to the available information.

Specific target organ toxicity in case of repeated exposure

Not classified according to the available information.

Aspiration toxicity

Not classified according to the available information.

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 that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other harmful effects:

Product:

Additional ecological information: No data is available for this product.

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Section 13: Disposal considerations

13.1 Waste treatment methods:

Product: Waste generation should be avoided or minimized whenever possible.
 Empty containers and liners may contain product residues.
 Waste and containers must be disposed of in a safe manner.
 Surplus and products not suitable for recycling should be disposed of by a recognized disposal company.
 The disposal of this product and its solutions and by-products must be at all times in compliance with environmental protection requirements, waste disposal laws and the requirements of local authorities.
 Avoid dispersal and runoff of released material and avoid contact with soil, water bodies, drains and sewers.
 Free recycling by the company PDR Recycling GmbH + Co KG.
 Info to the zero tariff under 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: PRESSURIZED GAS PACKS
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 specified by regulation
 Classification code: 5F
 Hazard label: 2.1
 Tunnel Restriction Code: (D)

IMDG
 Packing group: Not specified by regulation
 Hazard label: 2.1
 EmS Code: F-D, S-U

IATA (Cargo)

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

IATA (Passenger)

Packing Instruction
 (passenger aircraft): 203
 Packing Instruction (LQ): Y203
 Packing group: Not specified by regulation
 Hazard 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 for informational purposes only and are based solely on the properties of the unpackaged material as described in this Safety Data Sheet. Transport classifications may vary with the means of transport, package size, and variations in regional or country regulations.

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

Not applicable to product as supplied.

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 concerning the export and import of dangerous chemicals:	Not applicable.
REACH - List of Substances of Very High Concern (Article 59) Candidate for Authorization:	None of the components are listed (=> 0.1 %)
REACH - List of substances subject to authorisation (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 (recast):	Not applicable
REACH Information:	The substances contained in our products are: - registered by our suppliers and/or - registered by us and/or - exempted from the REACH regulation and/or - are subject to the REACH regulation, but are exempt from the registration obligation.
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major Accidents involving Hazardous Substances: P3a	FLAMMABLE AEROSOLS

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Water hazard class:	WGK 2 clearly hazardous to water Classification according to AwSV, Annex 1 (5.2)
Volatile organic compounds:	Ordinance on the incentive tax on volatile organic compounds (VOCV). Content of volatile organic compounds (VOCs): 25.36 Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 25.36 %

Other regulations:

75/324/EWG

Product is not subject to the Chemicals Prohibition Ordinance.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this mixture.

Section 16: Other information

Full text of the H-phrases

H220 :	Extremely flammable gas.
H280 :	Contains gas under pressure; may explode if heated.
H315 :	Causes skin irritation.
H317 :	May cause allergic skin reaction.
H319 :	Causes severe eye irritation.
H330 :	Fatal if inhaled.
H334 :	May cause allergy, asthma-like 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.

Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Chronic :	Harmful to the aquatic environment in the long term (chronic).
Carc:	Carcinogenicity
Eye Irrit.:	Eye irritation
Flam. Gas:	Flammable gases
Press. Gas:	Gases under pressure
Resp. Sens.:	Sensitization by inhalation
Skin Irrit.:	Irritant effect on skin
Skin Sens.:	Sensitization by 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 limits
TRGS 430:	TRGS 430. isocyanates
2000/39/EC / TWA:	Occupational exposure limits - 8 hours
DE TRGS 900 / AGW:	Occupational exposure limit value
TRGS 430 / AGW:	Occupational exposure limit value
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

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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)

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, bioaccumulative 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 bioaccumulative

Additional information

Classification of the mixture:

Aerosol 1

H222, H229

Classification method:

Based on product data or assessment

The information contained in this safety data sheet is based on our knowledge at the time of publication. They do not represent any warranted properties. With regard to warranty, the corresponding product data sheets and the general terms and conditions of sale apply exclusively. Observe product data sheets before use and processing.

Changes compared to the last edition!

(The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier).