

Safety data sheet
according to Regulation (EC) No. 1907/2006

Revised on: 28.10.2020
Printing date: 05.11.2020
Version: 2.0


Ralmont GmbH
D-92361 Berggau
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RALMO-FLOTT 2K – Component B

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

- 1.1 Product identifier:**
RALMO-FLOTT 2K (Comp. B)
- 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:**
Producer / Supplier:
Ralmont GmbH
Pavelsbacher Straße 17
92361 Berggau
Contact person for informationen: info@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)
Irritation of the skin, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H319: Causes serious eye irritation.
- 2.2 Label elements:**
Labelling (REGULATION (EG) No. 1272/2008)
Hazard pictograms:
- 
- | | |
|----------------------------------|--|
| Signal word: | Attention |
| Hazard statements: | H315 Causes skin irritation.
H319 Causes serious eye irritation. |
| Precautionary Statements: | P101 If medical advice is needed, have container or label ready.
P102 Keep out of the reach of children. |
| Prevention: | P264 Wash skin thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection. |
| Reaction: | P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any existing contact lenses if possible. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice / attention. |
- 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, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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Section 3: Composition/ information on ingredients

3.2 Mixtures: Ingredients

Chemical name	CAS-No. EG-No. Registration number	Classification	Concentration (% w/w)
Reaction products of phosphoryl trichloride and methyloxirane	1244733-77-4 807-935-0 01-2119486772-26-XXXX	Acute Tox. 4; H302	>= 25 - < 40
N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3 221-220-5 01-2119972935-21-XXXX	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 1 - < 2,5

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.
 Consult a doctor after severe exposure.

After skin contact: Take off contaminated clothing and shoes immediately.
 Wash with soap and lots of water.
 If the problems are persistent, consult a doctor.

After eye contact: In case of contact with the eyes, rinse immediately and thoroughly with plenty of water.
 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.

4.2 Important acute symptoms and delayed symptoms:

Symptoms: Excessive lacrimation
 Reddening of the skin
 Dermatitis
 See section 11 for more detailed health information effects and symptoms.

Risks: Irritating effects
 Causes skin irritation.
 Causes serious eye irritation.

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

Treatment: Symptomatic treatment.

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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.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Chlorine compounds
Bromine compounds

5.3 Advice for firefighting:

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.
Further information: Usual measures for chemical fires.

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:

Environmental protection measures: In the event of contamination of waterways or sewers, inform the responsible authorities.
No special environmental protection measures required.

6.3 Methods and material for containment and cleaning up:

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Place disposal in suitable, closed containers.

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).
Do not get in eyes, on skin, or on clothing.
Personal protective equipment, see section. 8.
Do not eat, drink or smoke in the area of application.
The general hygiene measures when handling chemicals are to be observed.

Advice on protection against fire and explosion:
Hygiene measures:

Usual measures for preventive fire protection.
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.

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7.2 Conditions for safe storage taking into account incompatibilities:

Requirements for storage rooms and containers: Keep container tightly closed in a dry, well-ventilated place. Close opened containers carefully and store upright to avoid any leakage to prevent. Store in accordance with local regulations.

Storage class (TRGS 510): 10, Flammable liquids

More information about the storage stability: No decomposition if stored and used as directed.

7.3 Specific end uses: None

Section 8: Exposure controls / personal protection

8.1 Parameters to be monitored:

Does not contain any substances with occupational exposure limit values.

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). A rubber apron and protective boots (EN 14605) are also recommended for mixing and stirring work.

Respiratory protection: No special measures required.

Environmental exposure controls and monitoring

General information: In the event of water pollution or the sewage system, inform the responsible authorities.
 No special environmental protection measures required.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: liquid

Color: yellow-orange

Odor: No data available

Odor threshold: No data available

pH value: Not applicable

Melting / melting range / Freezing point: No data available

Boiling point / boiling range: No data available

Flash point: > 200 °C

Evaporation rate ability: No data available

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Flammability (solid, gas shaped):	No data available
Upper explosion limit / Upper flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	No data available
Vapor pressure:	0.01 hPa
Relative vapor density:	No data available
Density:	1.194 g / cm ³ (25 °C)
Solubility(ies):	
Water solubility:	No data available
Solubility in others	
Solvents:	No data available
Partition coefficient: n-Octanol / water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	
Viscosity, dynamic:	460 mPa.s (25 °C)
Viscosity, kinematic:	No data available
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: No hazards to be particularly mentioned.

10.4 Conditions to avoid:
Conditions to avoid: No data available

10.5 Incompatible materials:
Substances to avoid: No data available

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:

Reaction products of phosphoryl trichloride and methyloxirane:

Acute oral toxicity: LD50 Oral (rat): > 630 mg / kg

Acute inhalation toxicity: LC50 (rat): > 7 mg / l

Exposure time: 4 h

Test atmosphere: dust / mist

Acute dermal toxicity: LD50 dermal (rabbit): > 5,000 mg / kg

N, N, N', N'-tetramethyl-2,2'-oxybis (ethylamine):

Acute oral toxicity: LD50 Oral (rat): 609 mg / kg

Acute inhalation toxicity: LC50 (rat): 3.3 mg / l

Exposure time: 4 h

Test atmosphere: dust / mist

Acute dermal toxicity: LD50 dermal (rabbit): 750 mg / kg

Irritation and etch effects on the skin

Causes skin irritation

Heavy eye irritation

Causes serious eye irritation

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

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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

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.

Section 14: Transport information

14.1 UN number:

Not classified as dangerous goods

14.2 UN proper shipping name:

Not classified as dangerous goods

14.3 Transport hazard classes:

Not classified as dangerous goods

14.4 Packing group:

Not classified as dangerous goods

14.5 Environmental hazards:

Not classified as dangerous goods

14.6 Special precautions for users:

Not applicable

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

Does not apply to product as shipped.

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Section 15: Regulatory information

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

REACH - Restrictions on Manufacturing, Inventing sweeping and the use of certain dangerous chemical substances, preparations and products (Annex XVII):

The restriction conditions for the following entries should be taken into account: Number in the list 3

International Chemical Weapons Convention (CWC)
Lists of toxic chemicals and raw materials:

Not applicable

REACH - List of those eligible for authorization-Substances of very high concern (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 leading to depletion of the ozone layer:

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (new version):

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 information:

The substances contained in our products are
- registered and / or by our suppliers
- registered by us and / or
- exempted from the REACH regulation and / or
- are subject to the REACH regulation, but are of the Exempt from registration.

Seveso III: Directive 2012/18 / EU of the European Parliament and Council on the Mastery of Major Accident Hazards with Hazardous Substances:

Not applicable

Water hazard class:

WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds:

Ordinance on the incentive tax on volatile organic compounds (VOCV) without a VOC tax
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: <0.01%

Other regulations:

Follow employment restrictions according to the law on the protection of mothers at work, in training and in studies (Mutterschutzgesetz - MuSchG).

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.

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Section 16: Other information

Wording of the H- clause

H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H332: Harmful if inhaled.

Wording of other abbreviations:

Acute Tox.: Acute toxicity
Eye Dam.: Serious eye damage
Skin Corr.: Etching of the skin
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)
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:

Skin Irrit. 2 H315
Eye Irrit. 2 H319

Classification procedure:

Calculation method
Calculation method

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. Read product data sheets before use and processing.

Changes compared to the last edition!