

according to Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) No 830/2015

Rammed earth

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: **Rammed earth**

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

Clay plaster

1.3 Details of the supplier of the safety data sheet

Manufacturer: Saviukumaja OÜ,
Mooste Manor,
Põlva county 64616 Estonia

SDS responsible person e-mail: info@saviukumaja.ee

1.4 Emergency telephone number

Poison information centre number (Estonia): 16662 (from abroad +372 6269390)
Open Mon: 9:00 - 21:00, Tue-Sun 24H.
Emergency number: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008: Not classified.

2.2 Label elements

Pictogram(s): Not applicable.
Signal word: Not applicable.
Hazard Statements: Not applicable.
Precautionary Statements: Not applicable.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Product is a mixture.

3.2 Mixtures:

Consists of a mixture of clay and sand.

Chemical name	CAS; EC; Index; REACH reg.no	Content %	Classification according to Regulation (EC) 1272/2008 (CLP)
Clay	CAS: 999999-99-4 EC: 310-127-6 Index: - REACH reg. no: exempted	< 30	Not classified
Quartz (SiO ₂)	CAS: 14808-60-7 EC: 238-878-4 Index: -	> 70	Not classified

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	REACH reg. no: exempted		
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The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation:	After inhalation of significant amount move person to fresh air.
Skin contact:	No specific actions are required.
Eye contact:	Do not rub eyes to avoid possible cornea damage due mechanical pressure. Wash eyes immediately with plenty of water to remove all remaining particles. In case of irritation seek medical assistance.
Ingestion:	No specific actions are required.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/ effects:	No acute and delayed symptoms and effects are observed.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Extinguishing media:	Not flammable. Coordinate extinguishing media to the surrounding fire.
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5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards:	Product does not induce burning.
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5.3 Advice for fire-fighters

Special protective equipment for fire fighters:	No special measures.
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SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions:	See additional information on personal protective equipment from Section 8. Measures for safe use see Section 7.
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6.2 Environmental precautions

Environmental precautions:	No special requirements.
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6.3 Methods and materials for containment and cleaning up

Cleaning up methods:	Avoid dry sweeping and use water spraying or vacuum cleaning systems (with high-efficiency particulate air filter) to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.
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6.4 Reference to other sections

Reference:	See Section 8 for personal protective equipment. See Section 13 for disposal considerations.
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SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Precautions:	Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of inadequate ventilation
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wear suitable respiratory protection. Ensure concentrations below specific concentration thresholds with suitable industrial practices. Do not breathe dust.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep away from food, drinks and feedstock.

7.3 Specific end use(s)

Specific end use(s):

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Ingredient	CAS Number	Type of OEL	8 hour TWA	Notes / Sources
Dust: total dust fine dust	-	Limit value	10 mg/m ³ 5 mg/m ³	Fine dust consists of particles with a diameter of less than 2,5 µm that may reach to lung alveolus with inhalable air. The mixture of organic and inorganic dust concentration should not exceed 5 mg/m ³ . The concentration of substances in the dust must be according to the thresholds. Estonia
Quartz, fine dust (<2,5 µm diameter particles)	14808-60-7	Limit value	0,1 mg/m ³	Estonia

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust). Consult the appropriate literature to determine the relevant standard(s) for a specific country.

8.2 Exposure controls

Appropriate engineering controls:

Use closed systems, exhaust ventilation or other technical measure to ensure the concentrations of substances in the air are below the recommended workplace exposure limit values. In case of dust formation use mitigation measures and avoid dispersion of dust into the environment. According to workplace processes risk evaluation it may be necessary to monitor workplace exposures to demonstrate compliance to applicable thresholds.

Individual protection measures, such as personal protective equipment

Personal protective equipment:

Protective equipment should be chosen according to workplace specifics, the amount of handled material, the concentration of hazardous substances and the risk to exceed threshold limit values. Suppliers of the equipment must guarantee that their products fully comply with applicable requirements and standards.

Respiratory protection:

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation.

Hand protection:

Appropriate protection is recommended for workers who suffer from dermatitis or sensitive skin due to abrasion and mechanical contact.

Eye/face protection:

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

Skin protection:

Skin protective equipment must be chosen according to the tasks at hand and the nature of accompanying risks.

General hygiene measures:

Do not breathe in dust. Wash hands before breaks and after work.

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Environmental exposure
controls:

Take measures to avoid spreading of dust into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state:	Solid
Colour:	Dark red
Odour:	Odourless
pH:	Not available
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash Point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	Not available
Solubility(ies):	Negligible.
Partition coefficient: n-octanol/water:	Not applicable (inorganic substance)
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not applicable
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising

9.2 Other information

Additional data:	Not available
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SECTION 10: STABILITY and reactivity**10.1 Reactivity**

Reactivity:	Inert, not reactive.
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10.2 Chemical stability

Stability:	Chemically stable.
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10.3 Possibility of hazardous reactions

Hazardous reactions:	No hazardous reactions are foreseeable in normal conditions of use.
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10.4 Conditions to avoid

Conditions to avoid:	Keep away from moisture.
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10.5 Incompatible materials

Incompatible materials:	No particular incompatibility known.
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10.6 Hazardous decomposition products

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Hazardous decomposition products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Information on likely routes of exposure: Likely routes of exposure: dermal, inhalation.

No test data of product available.

Acute toxicity: Product is not classified hazardous through ingestion, inhalation or dermal exposure.

Skin corrosion/irritation: Not irritating to skin.

Serious eye damage/irritation: Not hazardous to eyes.

Respiratory or skin sensitisation: No evidence of sensitisation.

Germ cell mutagenicity: Not classified as germ cell mutagen.

Carcinogenicity: Not classified as carcinogenic substance.

Reproductive toxicity: Not classified as toxic to reproduction.

STOT-single exposure: Does not classify as a specific target organ toxic following single exposure.

STOT-repeated exposure: Does not classify as a specific target organ toxic following repeated exposure.

Aspiration hazard: Not classified as aspiration hazard causing substance.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity: Product is not classified dangerous for the environment.

12.2 Persistence and degradability

Degradability: Not applicable.

12.3 Bioaccumulative potential

Bioaccumulative potential: Not applicable.

12.4 Mobility in soil

Mobility: Not applicable.

12.5 PBT and vPvB assessment

PBT/vPvB: Not applicable.

12.6 Other adverse effects

Other adverse effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose waste and product residues according to the requirements of local authorities. Recycle as possible. Consult with local authorities. Waste is not classified as hazardous waste.

SECTION 14: TRANSPORT INFORMATION

The product is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1 UN number

UN number: -

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14.2 UN proper shipping name

UN proper shipping name: -

14.3 Transport hazard class(es)

Class: -

14.4 Packing group

PG: -

14.5 Environmental hazards

Marine pollution: -

Environmentally hazardous substance: -

14.6 Special precautions for user

Special precautions: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not applicable

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EU) No 830/2015 amending Annex II of REACH

15.2 Chemical Safety Assessment Not applicable.**SECTION 16: OTHER INFORMATION**

Additional data:

Safety data sheet is compiled by using available data on the substance.
Substance exempted from REACH Regulation according to Annex V.7.

Used classification method according to (EC) Regulation No. 1272/2008:

Not applicable.

Full text of hazard categories and undescribed hazard statements:

Not applicable.

Abbreviations / acronyms that are used in this safety data sheet:

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DPD = Dangerous Preparations Directive [1999/45/EC]
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No-Effect Concentration
 REACH = Regulation of registration, evaluation, authorisation and restriction of chemicals [(EU) No 1907/2006]
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 vPvB = Very Persistent and Very Bioaccumulative
 TWA = Time weighted average

The information contained within this Safety Data Sheet is provided to assist customers in assessing the health and safety requirements associated

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with the use of the product. The information was obtained from sources which were believed to be reliable. This Safety Data Sheet does not constitute an assessment of risks arising from the not intended use of the product.