

SAFETY DATA SHEET



Pursuant to Regulation of the European Parliament and of the Council
(EC) No 1907/2006 (REACH), as amended

Grenamat HTI

Creation date	1 March 2002	Revision number	1
Revision date	12 December 2019	Version number	2

CHAPTER 1: Identification of Substance/Mixture and of Company/Undertaking

- 1.1 Product Identifier**
Substance / Mixture Grenamat HTI – heat-resistant board
Mixture
- 1.2 Relevant Identified Uses of Substance or Mixture and Uses Advised Against**
Identified uses of the mixture Boards for lining, cladding, and coating of heating places and similar applications. These boards are made of expanded vermiculite and a special inorganic bond assuring high resistance against high temperatures and thermal shocks. The boards are harmless to human health and contain no asbestos, glass, or mineral fibres.
Uses advised against Not specified
- 1.3 Details of Supplier of This Safety Data Sheet**
- Distributor**
Name or business name Grena, a.s.
Address Třída Čs. armády 541, 39181 Veselí nad Lužnicí II
Czech Republic
Company ID 466 78 832
Phone +420 381 549 111
Email address grena@grena.cz
Website address www.grena.cz
- Email of Professionally Qualified Person Responsible for This Safety Data Sheet**
Name Jiří Šilhan
Email address silhan@grena.cz
- 1.4 Emergency Phone Number**
Toxicological Information Centre, Na Bojišti 1, Prague, 24/7 phone +420 224 919 293 or +420 224 915 402, information on health risks only – acute poisoning of people and animals

CHAPTER 2: Hazard Identification

- 2.1 Classification of Substance or Mixture**
Classification of Mixture According to Regulation (EC) 1272/2008
The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008.
For the full text of classifications and H-phrases refer to Chapter 16.
- Most Serious Adverse Physical and Chemical Effects**
None are known
- Most Serious Adverse Effects on Human Health and the Environment**
None are known
- 2.2 Label Element**
Standard Health Risk Phrases
Not specified
- 2.3 Precautionary Statements**
P232 Protect from moisture. Store in rooms with temperatures above 5°C and relative humidity up to 65%
P261 Avoid breathing dust.
P280 Wear protective gloves / protective clothing / eye protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P312 IF SWALLOWED: If you feel unwell, seek medical attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 2.4 Other Hazards**
The mixture does not contain substances meeting criteria for PBT or vPvB substances pursuant to Annex XIII to Regulation (EC) No 1907/2006 (REACH), as amended.

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CHAPTER 3: Composition/Information about Components

3.2 Mixture

Chemical Characteristics of

Vermiculite-based homogeneous dry mixture. It does not contain any substances subject to reporting requirements

Notes

For the full text of classifications and H-phrases refer to Chapter 16.

CHAPTER 4: First Aid Measures

4.1 Description of First Aid Measures

Pay attention to your own safety. If any health problems occur or if in doubt, seek medical advice and provide information from this Safety Data Sheet.

If inhaled

Immediately stop the exposure, and remove the victim to fresh air.

Skin contact

Wash with clean water.

If in eyes

Immediately begin rinsing with running water, open the eyelids wide (by force if necessary), remove contact lenses right away if the victim uses them.

Ingestion

Rinse mouth with clean water. If symptoms appear seek medical attention.

4.2 Major Symptoms and Effects, Both Acute and Delayed

If inhaled

Not expected.

Skin contact

Not expected.

If in eyes

Not expected.

Ingestion

Not expected.

4.3 Instructions for Immediate Medical Help and Need for Special Treatment

Symptomatic treatment.

CHAPTER 5: Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media

The product does not burn. Choose extinguishing media to suit the surroundings of the fire.

Unsuitable Extinguishing Media

None are known.

5.2 Specific Hazards of Substance or Mixture

No specific precautions are required.

5.3 Instructions for Fire-Fighters

No specific precautions are required.

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CHAPTER 6: Accidental Release Measures

6.1 Personal Protection, Protective Equipment, and Emergency Procedures

Provide for sufficient ventilation. Avoid dust formation. Use personal protective equipment. Follow the instructions contained in Chapters 7 and 8.

6.2 Environment Protection Measures

Avoid soil contamination.

6.3 Methods and Materials for Containment and Clean-Up

Place product residues in a replacement container and dispose of pursuant to Chapter 13.

6.4 Reference to Other Sections

7, 8, and 13.

CHAPTER 7: Handling and Storage

7.1 Safe Handling Precautions

Wear personal protective equipment. Prevent eye contact. Keep workplace clean and tidy. Wash body and hands with warm water and soap after work. Standard regeneration means (hand cream) are recommended.

7.2 Conditions for Safe Storage of Substances and Mixtures, Including Incompatibilities

Store in a dry place.
Protect against moisture.
Packaging material

C (81), Paper and Cardboard/Plastic (Combined Materials and Combined Packages)



C

7.3 Specific End Use(s)

Not specified

CHAPTER 8: Exposure Limits / Personal Protective Equipment

8.1 Control Parameters

The mixture contains no substances subject to reporting requirements

8.2 Exposure Limits

Comply with common occupational health precautions; in particular, ensure good ventilation. This can only be achieved through local exhaust or effective general ventilation. If MAC cannot be complied with appropriate respiratory protection must be used. Do not eat, drink, or smoke while working. Wash hands thoroughly with soap and water after work and before breaks for food and rest.

Eye and Face Protection

Protective goggles

Skin Protection

Hand protection: Protective gloves

Other protection: Protective work clothes and footwear

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Respiratory Protection

Respirator.

Thermal Hazard

Not specified

Environment Exposure Controls

Comply with routine environmental protection measures, see Section 6.2.

CHAPTER 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance	Granular mix of solid substances
State	Solid
Colour	Light
Odour	Odourless
Odour threshold	Data not available
pH	Data not available
Melting point / freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Non-flammable
Evaporation rate	Data not available
Flammability (solids, gases)	Non-flammable
Upper/lower flammability or explosiveness limits	
Flammability limits	Data not available
Explosive limits	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	Data not available
Solubility	
Solubility in water	Data not available
Solubility in fats	Data not available
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available
Explosive properties	Data not available
Oxidising properties	Data not available

9.2 Additional Information

Density	Data not available
Ignition temperature	Data not available

CHAPTER 10: Stability and Reactivity

10.1. Reactivity

The mixture is non-flammable.

10.2 Chemical Stability

The mixture is stable under normal conditions.

10.3 Possibility of Hazardous Reactions

The mixture is stable under normal conditions.

10.4 Conditions to Avoid

Under conditions of normal use, the mixture is stable and no degradation occurs. Protect against moisture.

10.5 Incompatible Materials

None are known under the recommended conditions of use.

10.6 Hazardous Decomposition Products

None under conditions of normal use.

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CHAPTER 11: Toxicological Information

11.1. Information on Toxicological Effects

No toxicological data are available for the mixture.

Acute Toxicity

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met.

Severe Eye Damage/Irritation

Based on available data, the classification criteria are not met.

Sensitisation of Skin/Airways

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity – Single Exposure

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity – Repeated Exposure

Based on available data, the classification criteria are not met.

Aspiration Hazard

Based on available data, the classification criteria are not met.

CHAPTER 12: Environmental Information

12.1 Toxicity

Acute Toxicity

No data are available for the mixture.

12.2 Persistence and Degradability

Not specified

12.3 Bioaccumulation Potential

Not specified

12.4 Mobility in Soil

Not specified

12.5 Results of PBT and vPvB Assessment

The mixture is not classified as PBT or vPvB.

12.6 Other Undesirable Effects

Not specified

CHAPTER 13: Disposal Instructions

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13.1 Waste Disposal Methods

Environmental pollution hazard, proceed in accordance with Act No 185/2001 Coll. on waste, as amended, and with executive regulations on waste disposal. Follow applicable waste disposal regulations. Unused products and contaminated packaging should be put into labelled waste containers and transferred to a licensed waste disposal company (specialised firm) holding authorisation for waste disposal activity. Do not dispose of together with municipal waste. Empty packaging material can be used as an energy source in an incinerator or deposited at a dump of an appropriate facility. Thoroughly rinsed packaging can be recycled.

Waste Legislation

Act No 185/2001 Coll. on waste, as amended. Decree No 383/2001 Coll., on details of waste management, as amended. Decree No 93/2016 Coll., (Catalogue of Wastes), as amended. Decree No 94/2016 on the assessment of hazardous properties of wastes, as amended.

CHAPTER 14: Transport Information

14.1 UN No

The product is not governed by ADR regulations.

14.2 UN Proper Shipping Name

Not specified

14.3 Transport Hazard Class(es)

Not specified

14.4 Packaging Group

Not specified

14.5 Environmental Hazards

Not specified

14.6 Special Precautions for Users

Not specified

14.7 Transport in Bulk According to Annex II of Marpol and IBC Code

Not specified

CHAPTER 15: Regulatory Information

15.1. Safety, Health, and Environmental Regulations / Legislation Specific to Substance or Mixture

Regulation of the European Parliament and of the Council (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorisation, and restriction of chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93, Commission Regulation (EC) No 1488/94, Council Directive 76/769/EEC, and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC, and 2000/21/EC, as amended. Regulation of the European Parliament and of the Council (EC) No 1272/2008 of 16 December 2008 on the classification, labelling, and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended. Act No 350/2011 Coll., on chemical substances and chemical mixtures and on the amendment to certain acts (Chemicals Act). Act No 258/2000 Coll., on public health protection, as amended. Government Regulation No 361/2007 Coll., laying down occupational health protection requirements, as amended. Decree No 415/2012 Coll., on the permissible level of pollution and its determination and the execution of certain other provisions of the Air Protection Act, as amended. Act No 185/2001 Coll., on waste, and its executive decrees, as amended. Act No 201/2012 Coll., on air protection, as amended. Decree No 432/2003 Coll., laying down requirements and conditions for the classification of work into categories, limiting levels for biological exposure test indicators, requirements and conditions for the sampling of biological material for biological exposure tests, and essentials of reporting work with asbestos and with biological agents, as amended.

15.2 Chemical Safety Assessment

Not specified

CHAPTER 16: Additional Information

Other Information Relevant for Human Safety and Health Protection

The product may not be used for purposes other than as specified in Chapter 1 without specific consent of the manufacturer/importer. The user is responsible for compliance with all applicable health protection regulations.

Explanation of Abbreviations and Acronyms Used in This Material Safety Data Sheet

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service

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CLP	Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures
DNEL	Derived No Effect Level
EC ₅₀	Concentration of a substance producing a harmful effect on 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EC	EC number is a numerical identifier of the substances on the EC list
EU	European Union
IATA	International Air Transport Association
IBC	International code for the construction and equipment of ships carrying dangerous chemicals in bulk
IC ₅₀	Concentration causing 50% inhibition
ICAO	International Civil Aviation Organization
IMDG	International Maritime Transport of Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance expected to cause death in 50% of the population
LD ₅₀	Lethal dose of a substance expected to cause death in 50% of the population
LOAEC	Lowest Observable Adverse Effect Concentration
LOAEL	Lowest Observable Adverse Effect Level
log K _{ow}	Partition coefficient octanol-water
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observable Adverse Effect Level
NOEC	No Observable Effect Concentration
NOEL	No Observable Effect Level
MAC	Maximum allowable concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative, and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
ppm	Particles per million (one millionth)
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID	Agreement on the Carriage of Dangerous Goods by Rail
UN	The four-digit identification number of a substance or article adopted from UN Sample Regulations
UVCB	Substance of Unknown or Variable Composition, Complex Reaction Product, or Biological Material
VOC	Volatile Organic Compound
vPvB	Very persistent, very bioaccumulative

Instructions for Training

Introduce the staff to the recommended method of use, compulsory personal protective equipment, first aid, and prohibited product handling.

Recommended Limitations of Use

Not specified

Information about Data Sources Used for Compilation of This Safety Data Sheet

Regulation of the European Parliament and of the Council (EC) No 1907/2006 (REACH), as amended. Regulation of the European Parliament and of the Council (EC) No 1272/2008, as amended. Act No 350/2011 Coll., on chemical substances and chemical mixtures, as amended. Principles of First Aid Provision after Exposure to Chemicals (Doc. MUDr Daniela Pelclová, CSc, MUDr Alexandr Fuchs, CSc, MUDr Miroslava Hornychová, CSc, MUDr Zdeňka Trávníčková, CSc, Jiřina Fridrichovská, prom. chem.). Data from the manufacture of the substance/mixture, if available - data from authorisation documentation.

Disclaimer

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This Safety Data Sheet contains information aimed at ensuring health and safety at work and environmental protection. The data included herein correspond to the current state of knowledge and experience and comply with applicable legislation. The document is not to be considered guarantee of product appropriateness and applicability for any particular purpose.