

Issued: 01.06.2015

Revision: V3.0

Revision date: 30.11.2023

## THERMAX Brandschutzkleber (fire protection adhesive)

### 01. Identification of the substance/ mixture and of the company/ undertaking

- 01.1.Product identifier:** **THERMAX Brandschutzkleber (fire protection adhesive)**
- 01.2.Relevant identified uses of the product and uses advised against:** Adhesive for bonding vermiculite boards together. For industrial and professional use.
- 01.3.Details of the supplier of the safety data sheet:**
- Manufacture/ Supplier:* **Mineralka d.o.o. Niederlassung Austria** | Nordlandstraße 1 | A-3300 Amstetten | Austria  
Telefon: +43-7472-68566-0 | E-Mail: info@thermax.at
- Competent person:* E-Mail: info@at.tp-group.com
- 01.4.Emergency telephone number:** European emergency telephone number: 112
- Austria:** **Vergiftungsinformationszentrale (VIZ)**  
Notruf 0-24 Uhr: +43 1 406 43 43  
Bürozeiten: Montag bis Freitag, 8 bis 16 Uhr, Tel.: +43 1 406 68 98

### 02. Hazards identification

- 02.1.Classification of the product:**
- Classification acc. to Reg. (EC) 1272/2008:* This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.
- Hazard statements:* No hazard statements.
- 02.2.Label elements:**
- Hazard determining component:* No hazard statements.
- Hazard statements:* No hazard statements.
- Precautionary statements:* No precautionary statements.
- 02.3.Other hazards:** Strong adhesive effect.
- The product may contain a certain amount of quartz. Depending on handling, crystalline quartz dust may form after drying and subsequent processing (e.g. grinding) of the product. Classification of the product is not necessary.
- No other specific hazards to humans or the environment known.
- Results of PBT and vPvB assessment: The product does not contain any persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances in concentrations 0.1 % according to Annex II.
- Endocrine disrupting property: The product does not contain components considered to be endocrine disrupting according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in quantities of 0.1% or more.

### 03. Composition/ information on ingredients

- 03.2. Mixture:**
- Chemical characterization/ Description:* Mixture of aluminium silicates and water glass.
- Dangerous components:* The product does not contain any hazardous substances that must be listed in Chapter 3 in accordance with Regulation (EU) No. 2020/878, Annex II, Part A, 3.1/3.2.
- It does not contain any other substances that are considered hazardous to health or the environment or whose concentration does not reach the level specified in the relevant legislation and therefore does not need to be included in the safety data sheet.

### 04. First aid measures

- 04.1.Description of first aid measures:**

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<i>General information:</i>	In case of accident or if you feel unwell, seek medical advice immediately (if possible, show operating instructions or safety data sheet).
<i>After skin contact:</i>	Wash carefully with plenty of soap and water. If skin irritation occurs, seek medical attention.
<i>After eye contact:</i>	Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing. If symptoms occur or persist, consult an ophthalmologist.
<i>After inhalation:</i>	Remove victim to fresh air and keep at rest. In case of irritation of the respiratory tract, consult a doctor.
<i>After ingestion:</i>	Rinse mouth thoroughly with water. Drink plenty of water in small sips (dilution effect). Do NOT induce vomiting. If symptoms occur or in case of doubt, seek medical advice.
<b>04.2. Most important symptoms and effects, both acute and delayed:</b>	For information on hazards identification see section 2. For information on toxicological information see section 11.
<b>04.3. Indication of any immediate medical attention and special treatment needed:</b>	No special treatment needed; treat symptomatically
<b>05. <u>Firefighting measures</u></b>	
<b>05.1. Extinguishing media:</b>	The product is noncombustible; coordinate fire-fighting measures to the fire surroundings..
<i>Suitable extinguishing media:</i>	Carbon dioxide (CO <sub>2</sub> ). Dry extinguishing powder. Alcohol resistant foam. Atomized water.
<i>Unsuitable extinguishing media:</i>	High power water jet.
<b>05.2. Special hazards arising from the product:</b>	Formation of toxic gases possible when heated or in case of fire (Carbon monoxide. Carbon dioxide (CO <sub>2</sub> )).
<b>05.3. Advice for firefighters:</b>	Wear self-contained breathing apparatus.
<b>06. <u>Accidental release measures</u></b>	
<b>06.1. Personal precautions, protective equipment and emergency procedures:</b>	
<i>Staff not trained for emergencies:</i>	See section 7 for information on safe handling. Wear personal protective equipment (see section 8).
<i>Emergency services:</i>	Keep unprotected persons away.
<b>06.2. Environmental precautions:</b>	Do not allow to enter drains or waterways.
<b>06.3. Methods and material for containment and cleaning up:</b>	Absorb with liquid-binding material (e.g. diatomaceous earth, sand, acid binder) and dispose of properly. Clean contaminated objects and areas thoroughly observing environmental regulations.
<b>06.4. Reference to other sections:</b>	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.
<b>07. <u>Handling and storage</u></b>	
<b>07.1. Precautions for safe handling:</b>	The usual hygiene regulations must be observed. When using do not eat, drink or smoke. Wash hands before breaks and after work. Wear suitable protective clothing (see section 8).
<i>Technical measures:</i>	No special measures required if used properly.

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**Further information:** Always close the container tightly after removing the product.

**Information about protection against explosions and fires:**

The product is non-combustible. Usual measures for fire prevention.

### 07.2. Conditions for safe storage, including any incompatibilities:

**Technical measures and storage conditions:**

Store only in the original container. Keep container tightly closed.  
Do not store below 0 °C.  
Protect from frost and direct sunlight.

**Incompatible materials:**

Do not store together with acids.  
Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

**Packaging material:**

Store only in the original container.  
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

**Storage class (acc. TRGS 510):**

12 (Non-flammable liquids that cannot be assigned to any of the above mentioned storage classes).

### 07.3. Specific end use(s)

This product should be used for the applications in section 1.2.

## 08. Exposure controls/ personal protection

### 08.1. Control parameters:

**Occupational exposure limits:**

The product does not contain any relevant quantities of substances with workplace-related, substance-specific limit values to be monitored.

**Austria:**

(BGI. II – issued 9. April 2021 – Nb. 156):

The components of the product are not regulated with exposure limits.

**DNEL/ PNEC:**

No data.

**Additional advice on limit values:**

Dust is not expected to be released by the product in its liquid form. Dust may be generated during drying and subsequent processing, e.g. by grinding processes.

CAS-Nr.	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
1332-58-7	Kaolin, respirable dust		2.0		TWA (8 h)	
14808-60-7	Quartz, respirable dust		0.1		TWA (8 h)	

### 08.2. Exposure controls:

In case of a hazardous material with no controlled concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

**Appropriate engineering controls:**

Technical measures and the application of suitable work processes have priority over personal protection equipment.  
Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment:**

**General protective and hygienic measures:**

Keep away from food, drink and animal feed.  
Wash hands before breaks and at the end of work.  
See section 7 for safe handling.

**Skin protection:**

Wear suitable work clothing. Remove soiled, soaked clothing immediately.

**Eye/ face protection:**

Wear safety glasses; chemical goggles (if splashing is possible). EN 166

**Respiratory protection:**

When used properly and under normal conditions, respiratory protection is not required.

**Hand protection:**

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.  
The glove material must be impermeable and resistant to the product.

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Select the glove material taking into account the breakthrough times, permeation rates and degradation.

Glove material: fluorocarbon rubber (min. 0.4 mm), butyl rubber (min. 0.5 mm), nitrile rubber (min. 0.35 mm), polyvinyl chloride (min. 0.5 mm); breakthrough time  $\geq$  8h each.

The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.

Check for leaks / impermeability before use. If reuse is intended, clean gloves before removing and store in a well-ventilated place.

**Thermal hazards:** No thermal hazards known.

**Environmental exposure controls:** Do not allow to enter waterways or soil.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme deciding upon further protective measures.

## 09. Physical and chemical properties

### 09.1. Information on basic physical and chemical properties:

<i>Physical state:</i>	Liquid (pasty).
<i>Colour:</i>	Beige.
<i>Odour:</i>	Almost odourless.
<i>Melting point/ freezing point:</i>	Not determined.*
<i>Boiling point/ Boiling range:</i>	Not determined.*
<i>Flammability:</i>	Not applicable.
<i>Lower and upper explosion limit:</i>	Not applicable.
<i>Flash point:</i>	Not applicable.
<i>Auto-ignition temperature:</i>	Not applicable.
<i>Decomposition temperature:</i>	Not relevant.
<i>pH:</i>	Not determined.*
<i>Viscosity (kinematic):</i>	Not determined.*
<i>Solubility in/ Miscibility with:</i>	Not or only slightly miscible in water.
<i>Partition coefficient n-octanol/water (log value):</i>	Not relevant.
<i>Vapour pressure:</i>	Not determined.*
<i>Density:</i>	app. 1,6 g/cm <sup>3</sup> .
<i>Relative vapour density:</i>	Not determined.*
<i>Particle characteristics:</i>	Not relevant.

### 09.2. Other information:

<i>Information on physical hazard classes:</i>	No further data available or not applicable to the mixture.
<i>Other technical safety parameters:</i>	Dynamic viscosity: 120000 – 122000 mPa·s. No further parameters available.

\* The manufacturer has not carried out any tests on this parameter of the product or the results of the tests are not available at the time of publication of the data sheet or the property does not apply to the product.

## 10. Stability and reactivity

**10.1. Reactivity:** No reactivity known.

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<b>10.2.Chemical stability:</b>	The product is chemically stable under recommended conditions of storage, use and temperature.
<b>10.3.Possibility of hazardous reactions:</b>	No hazardous reaction when handled and stored according to provisions. Refer to chapter 10.5.
<b>10.4.Conditions to avoid:</b>	Protect against frost and direct sunlight.
<b>10.5.Incompatible materials:</b>	Do not contact with acids. Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.
<b>10.6.Hazardous decomposition products:</b>	No hazardous decomposition products known.

**11. Toxicological information**
**11.1.Information on toxicological effects:**

<i>Acute toxicity:</i>	Based on available data, the classification criteria are not met.
<i>Skin corrosion/ irritation:</i>	Based on available data, the classification criteria are not met.
<i>Eye damage/ irritation:</i>	Based on available data, the classification criteria are not met.
<i>Respiratory or skin sensitisation:</i>	Based on available data, the classification criteria are not met.
<i>Germ cell mutagenicity:</i>	Based on available data, the classification criteria are not met.
<i>Carcinogenicity:</i>	Based on available data, the classification criteria are not met.
<i>Reproductive toxicity:</i>	Based on available data, the classification criteria are not met.
<i>STOT – single exposure:</i>	Based on available data, the classification criteria are not met.
<i>STOT – repeated exposure:</i>	Based on available data, the classification criteria are not met. The product may contain a certain amount of quartz. Depending on handling, crystalline quartz dust may form after drying and subsequent processing (e.g. grinding) of the product. Classification of the product is not necessary.
<i>Aspiration hazard:</i>	Based on available data, the classification criteria are not met.

**Information on likely routes of exposure:**

Ingestion, inhalation, skin contact, eye contact.

**Symptoms related to the physical, chemical and toxicological characteristics:**

No data available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposures:**

Based on our experience and the information available, no adverse effects on health are to be expected if used and handled properly.

**Interactive effects:**

No data available.

**Absence of specific data:**

No information.

**11.2. Information on other hazards:**

<i>Endocrine disrupting properties:</i>	The mixture does not contain components considered to be endocrine disrupting according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in quantities of 0.1% or more.
<i>Other information:</i>	No data available.

**12. Ecological information**

<b>12.1.Toxicity:</b>	Based on available data, the classification criteria are not met.
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	The product has not been tested.
<b>12.2. Persistence and degradability:</b>	The product has not been tested.
<b>12.3. Bioaccumulative potential:</b>	No indication of bioaccumulation potential.
<b>12.4. Mobility in soil:</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment:</b>	The product does not contain persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances 0.1 % according to Annex XIII of Regulation (EC) No 1907/2006.
<b>12.6. Endocrine disrupting properties:</b>	The product does not contain ingredients that are considered endocrine disruptors according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in quantities of 0.1% or more.
<b>12.7. Other adverse effects:</b>	Do not allow to reach ground water, water course or sewage system.
<i>Water hazard class:</i>	(WGK, German regulation, self-classification): 1 – slightly hazardous for water.

## 13. Disposal considerations

### 13.1. Waste treatment methods:

Disposal according to the local regulations. Observe any national regulations!

*Recommendation:* Dispose of in accordance with the applicable regulations.

*Disposal consideration:* Must not be disposed of with household waste.

*List of waste code:* No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation.  
The LoW code number has to be determined after a discussion with a waste disposal specialist.

*Recommendations about disposal of packaging:* Dispose of in accordance with the applicable regulations.  
Contaminated packaging must be emptied optimally and can be recycled after appropriate cleaning.  
Handle uncleaned, contaminated packages in the same way as the substance itself.

*Physical/chemical properties that may affect waste treatment options shall be specified:*

No data available.

*Sewage disposal:* No data available

*Special precautions for any recommended waste treatment*

No data available

## 14. Transport information

<b>General information regarding transport:</b>	ADR/ RID; ADN; IMDG; IATA Not subject to the agreements on the transport of dangerous goods. Not dangerous goods.
<b>14.1. UN number or ID number:</b>	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of these transport regulations.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.
<b>14.5. Environmental hazards:</b>	Not hazardous to the environment.

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**14.6. Special precautions for user:** No special measures required if used properly.

**14.7. Maritime transport in bulk according to IMO instruments::**  
Not relevant.

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/ legislation specific for the product:

#### EU regulations:

**Regulation (EC) 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, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21.

**Regulation (EC) 1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006.

**Regulation (EU) 2020/878** of the Commission of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**National regulations:** No further relevant information available.

**TRGS 510 (DE)** Technical rules for hazardous substances: Storage of hazardous substances in transportable containers - GMBI 2021 p. 178-216 [No. 9-10] (dated 16 February 2021)

**WGK (DE)** Regulation on Installations for the Handling of Substances Hazardous to Water (AwSV) (Classification of mixtures according to Annex 1, No. 5 AwSV)

**15.2. Chemical safety assessment:** A chemical safety assessment has not been carried out.

## 16. Other information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual relationship.

**Information reg. the revision of the SDS:** The safety data sheet has been issued and revised according to Regulation (EU) 2020/878 (Section 1-16).

This safety data sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

SDS according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878).

**Literature references/ data sources:** Previous version of the safety data sheet (revision 2.2, dated 10.04.2018)

**Methods used for the classification acc. to Regulation (EC) 1272/2008:** This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): not relevant

#### Relevant hazard statements (code and full text) of Section 2 and 3:

No relevant hazard statements.

**Training advice:** Information on common precautions when handling chemicals.

#### Full text of the abbreviations in the safety data sheet:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW	Workplace exposure limit
ATE	Acute Toxicity Estimate.
AOX	Adsorbable organic halides.
AwSV	Regulation on facilities for handling substances hazardous to water (German law)
BCF	Bioconcentration factor.
BOD	Biological Oxygen Demand.
CAS	CAS number: Chemical Abstract Service number.
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR	CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD	Chemical Oxygen Demand.
CSA	Chemical Safety Assessment.



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CSR	Chemical Safety Report.
DNEL	Derived-No-Effect-Level.
ECHA	European Chemical Agency.
EC	European Community; EG number: EINECS and ELINCS numbers
EEC	European Economic Community
EEA	European Economic Area (EU + Iceland; Liechtenstein and Norway)
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European Norm.
EU	European Union.
EuPCS	European Product Categorisation System.
EWC	European Waste Catalogue (replaced by LoW)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
IATA	International Air Transport Association.
ICAO-TI	Technical Instruction for the Safe Transport of Dangerous Goods by Air.
IMDG	International Maritime Dangerous Goods.
IMO	International Maritime Organization.
IMSBC	International Maritime Solid Bulk Cargoes.
IUCLID	International Uniform Chemical Information Database.
IUPAC	International Union of Pure and Applied Chemistry.
Kow	n-Octanol – Water Partition Coefficient.
LC50	Lethal concentration resulting in 50% mortality.
LD50	Lethal dose resulting in 50% mortality (median lethal dose).
LoW	List of Waste.
LOEC	Lowest Observed Effect Concentration.
LOEL	Lowest Observed Effect Level.
NOEC	No Observed Effect Concentration.
NOEL	No Observed Effect Level.
NOAEC	No Observed Adverse Effect Concentration.
NOAEL	No Observed Adverse Effect Level.
OECD	Organization of Economic Cooperation and Development.
OSHA	Occupational Safety and Health Administration.
PBT	Persistent, Bioaccumulative and Toxic.
PNEC	Predicted No Effect Concentration.
QSAR	Quantitative Structure Activity Relationship.
REACH	Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA	Self Contained Breathing Appartus.
SDS	Safety Data Sheet.
STOT	Specific Target Organ Toxicity.
SVHC	Substances of Very High Concern.
TRGS	Technical rules for hazardous substances
TWA	Temporary work assignment.
UN	United Nations.
UVCB	Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC	Volatile Organic Compound.
vPvB	very Persistent and very Bioaccumulative
WGK	Water hazard class

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product

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

\*\*\*End of safety data sheet\*\*\*