

## SECTION 1: Identification

### 1.1. Identification

Product form	: Article
Product name	: GRADE 1200
Type of product	: Microporous high temperature insulation, Grade family : 1200 and related products. Valid for : MICROTHERM® PANEL-1200, MICROTHERM® (SEMI-)OVERSTITCHED-1200, MICROTHERM® (SEMI-)QUILTED-1200, PROMALIGHT®-1200, PROMALIGHT® MACHINED PARTS-1200, STEELFLEX®-1200

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture	: High temperature insulation.
------------------------------	--------------------------------

### 1.3. Supplier

#### Supplier

Microtherm N.V.  
Industriepark-Noord 1  
9100 Sint Niklaas - BELGIUM  
T +32 3 7601980 - F +32 3 760 1999  
[info@microtherm.be](mailto:info@microtherm.be) - [www.promat-industry.com](http://www.promat-industry.com)

#### Other

Etex Building Performance BV  
Vleugelboot 22  
3991 CL Houten - THE NETHERLANDS  
T +31 30 241 0770 - F +31 30 241 0771

#### Other

Promat UK Limited  
B1 The Innovation Centre, Pilsworth Road - Heywood Distribution Park  
Pilsworth Road  
OL10 2TS Heywood - UNITED KINGDOM  
T +44 (0)800 588 4444  
[sales@promat.co.uk](mailto:sales@promat.co.uk)

#### Other

Etex France Building Performance S.A.  
500 rue Marcel Demonque, Agroparc - CS70088  
84915 Avignon Cedex 9 - FRANCE  
T +33 (0)432 44 44 44  
[fds.efbp@etexgroup.com](mailto:fds.efbp@etexgroup.com) - [www.promat.fr](http://www.promat.fr)

#### Other

Promat S.p.A.  
Via Provinciale 10  
24040 Filago (BG) - ITALY  
T +39 035 99 37 37 - F +39 035 39 42 40  
[industria@promat.it](mailto:industria@promat.it) - [www.promat.com/industry](http://www.promat.com/industry)

#### Other

Promat d.o.o.  
Trata 50  
4220 Skofja Loka - SLOVENIA  
T +386 4 51 51 451 - F +386 4 51 51 450  
[info@promat-see.com](mailto:info@promat-see.com) - [www.promat-see.com](http://www.promat-see.com)

#### Other

#### Other

Promat Inc. USA  
1731 Fred Lawson Drive  
37801 Maryville, TN - UNITED STATES  
T +1 888 681 0155 - F +1 865 681 0016  
[industryUS@promat.com](mailto:industryUS@promat.com) - [www.promat.com/en-us/industry](http://www.promat.com/en-us/industry)

#### Other

Etex Building Performance N.V.  
Bormstraat 24  
2830 Tiselt - BELGIUM  
T +32 15 71 81 00 - F +32 15 71 81 09  
[info@promat-international.com](mailto:info@promat-international.com) - [www.promat-international.com](http://www.promat-international.com)

#### Other

Etex Building Performance GmbH  
Scheifenkamp 16  
40878 Ratingen - GERMANY  
T +49 (0)2102 493 0 - F +49 (0)2102 493 111  
[mail@promat.de](mailto:mail@promat.de) - [www.promat.de](http://www.promat.de)

#### Other

Promat Ibérica S.A.  
C/ Velazquez, 47 – 6° Izquierda  
28001 Madrid - SPAIN  
T +34 91 781 1550 - F +34 91 575 15 97  
[info@promat.es](mailto:info@promat.es) - [www.promat.es](http://www.promat.es)

#### Other

Etex Nordic A/S  
Vendersgade 74,3  
7000 Fredericia - DENMARK  
T +45 7366 1999  
[Promat-dk@etexgroup.com](mailto:Promat-dk@etexgroup.com) - [www.promat.com/da-dk](http://www.promat.com/da-dk)

#### Other

Promat s.r.o.  
Kkalova 22/784  
16000 Praha 6 - Bubenec - CZECH REPUBLIC  
T +420 224 390 811 - F +420 233 333 576  
[promat@promatpraha.cz](mailto:promat@promatpraha.cz) - [www.promatpraha.cz](http://www.promatpraha.cz)

#### Other

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Promat TOP Sp. z o.o.  
ul. Przechlowska 8  
03-879 Warszawa - POLAND  
T +48-22 212 2280 - F +48-22 212 2290  
[top@promatop.pl](mailto:top@promatop.pl) - [www.promatop.pl](http://www.promatop.pl)

Etex Middle East LLC  
Plot No. 597-921 Dubai Investment Park 2  
123945 Dubai - UNITED ARAB EMIRATES  
T +971 4 885 3070 - F +971 4 885 3588  
[info@promatfp.ae](mailto:info@promatfp.ae) - [www.promatmiddleeast.com](http://www.promatmiddleeast.com)

### 1.4. Emergency telephone number

Emergency number : Please contact a regional poison center or emergency telephone number.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

Not classified

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labelling

No labelling applicable

### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Can occur: eye irritation, irritation of mucous membranes and skin irritation. Some raw materials may contain traces of natural occurring quartz. During machining the product (drilling, cutting, sanding, etc.), airborne dust can be released. As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the bronchial tubes. The inhalation of quartz containing dust, in particular the fine dust fraction (respirable size), in high concentrations or over repeated or prolonged periods of time can be hazardous to health and may lead to chronic lung disease and an increased risk of lung cancer. This risk will be minimal if correct working practices are observed and applied. (Refer to Section 8). According to the International Agency for Research on Cancer (IARC Monograph Volume 100C - 2012) "Crystalline silica inhaled in the form of quartz or cristobalite is carcinogenic to humans (Group 1)".

Some products of this GRADE family are supplied encapsulated in covering materials, such as woven glass cloth, non-woven polyester cloth, PE foil, aluminium foil and mica sheet. Some fibres, glass threads, covering materials or adhesives may be used that contain some organic fraction which may decompose upon first heating.

### 2.4. Unknown acute toxicity (GHS US)

Not established.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not established.

### 3.2. Mixtures

Not established.

### 3.3. Article

Components : Aluminium oxide, zircon, aluminium oxide fibre

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Seek medical attention if ill effect or irritation develops.
First-aid measures after inhalation	: Remove to fresh air and drink water. Seek medical attention if irritation or symptoms persist.
First-aid measures after skin contact	: Rinse affected areas with water, taking care not to scratch or rub. Seek medical attention if irritation or symptoms persist.
First-aid measures after eye contact	: Do not rub the eye. Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Ingestion unlikely due to product form. Do not induce vomiting. Rinse mouth. Drink plenty of water. Call a POISON CENTER/doctor if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract and to other mucous membranes.
Symptoms/effects after skin contact	: May cause temporary irritation/skin rash. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause temporary eye irritation.
Symptoms/effects after ingestion	: None known.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: All extinguishing media can be used.
------------------------------	--

#### 5.2. Specific hazards arising from the chemical

Explosion hazard	: Product is not explosive.
Reactivity in case of fire	: The product is non-combustible. Covering : can be organic or contain organic components which can decompose when heated to temperatures greater than 150°C, emitting toxic gases.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
--------------------------------	---

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Minimise generation of dust. Avoid breathing dusts. Avoid eye and skin contact. Dampen down any dust or use vacuum cleaner with correct filter.
------------------	---

##### 6.1.1. For non-emergency personnel

Measures in case of dust release	: Use recommended respiratory protection. Prevent spread of dust. Dampen down any dust or use vacuum cleaner with correct filter.
----------------------------------	---

##### 6.1.2. For emergency responders

Protective equipment	: Use personal protective equipment as required.
----------------------	--

#### 6.2. Environmental precautions

Prevent spread of dust.

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 6.3. Methods and material for containment and cleaning up

- For containment : Use closed containers to avoid dust release.  
Methods for cleaning up : Shovel up small pieces. Dampen down any dust before putting into appropriate skips.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handling of products of this GRADE family, especially in an encapsulated form, is unlikely to generate significant quantities of airborne dust. Dust, generated during machining and processing must be exhausted and the regulatory occupational exposure limits (workplace exposure limits in UK) must be respected.
- Precautions for safe handling : Work in a well ventilated area. Use tools with appropriate dust exhaust equipment. Use always respiratory protective equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits in UK (refer to local regulations). Collect dust with a vacuum cleaner or soak with water before sweeping up.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, covered and frost proof area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

- Additional information : It is recommended that airborne fibre level is kept below 0.5 fibre/ml. (TWA - Average of 8 working hours)

### 8.2. Appropriate engineering controls

- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

<b>Eye protection:</b>
Avoid contact with eyes. Use safety glasses whenever tools are used and dusts are produced.
<b>Skin and body protection:</b>
Avoid contact with skin. Use working clothes and gloves to protect against mechanical injury and direct skin contact.
<b>Respiratory protection:</b>
Avoid breathing dusts. Use appropriate respiratory equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits for the UK (e.g. for exposures up to 10 times the OEL (WEL) use at least a P2 type dust mask. For higher exposure, use a P3 type mask).

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white
Odour	: None
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Do not use the product at temperatures in excess of the maximum recommended operating temperature.

#### 10.5. Incompatible materials

No additional information available.

#### 10.6. Hazardous decomposition products

Core insulation : thermally stable to the recommended maximum operating temperature.

Covering : can be organic or contain organic components which can decompose when heated to temperatures greater than 150°C, emitting toxic gases.

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Aluminium oxide (1344-28-1)

LD50 oral rat	≥ 5000 mg/kg
---------------	--------------

#### Silane, dichlorodimethyl-, reaction products with silica (68611-44-9)

LD50 oral rat	> 5000 mg/kg
---------------	--------------

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Viscosity, kinematic : No data available  
Symptoms/effects after inhalation : May cause irritation to the respiratory tract and to other mucous membranes.  
Symptoms/effects after skin contact : May cause temporary irritation/skin rash. Repeated exposure may cause skin dryness or cracking.  
Symptoms/effects after eye contact : May cause temporary eye irritation.  
Symptoms/effects after ingestion : None known.  
Other information : One of the components of the article is zircon which can contain very low levels of naturally occurring radioactive elements of the uranium and thorium series. The main radiological hazard from the product is internal exposure from small amounts of alpha particles given off by inhaled dust. Overexposure by inhalation to inhaled dusts containing radioactive uranium or thorium may cause lung cancer. Industrial hygiene practices aimed at control of airborne dust will lessen the potential for exposure. Low level gamma radiation from stocks of the insulation may present a lesser, external hazard that can be managed by limiting close proximity for long time periods to large volumes of material. IARC and NTP do not list Zircon as a carcinogen. Radioactivity measurements performed in the Belgium production facility, dealing with large quantities of these materials resulted in very low radioactivity concentrations (at least a factor 100 lower than the yearly Belgian dose limit for occupationally exposed persons).

Polycrystalline wool (PCW) aluminium oxide fibres are used in this GRADE family:  
- PCW are not classified as dangerous by regulation (EC) 1272/2008. PCW have not been assessed by the European Union and therefore are not specifically classified.  
- IARC (1988) grouped polycrystalline fibres into a broad category of "ceramic fibres". Test data specific to polycrystalline fibres were negative, but positive results with the other fibre types led to the conclusion that all fibres in the group should be considered as possible human carcinogens (IARC Group 2B).  
- In Germany, inorganic dust, unless classified elsewhere is classified in category 3 (TRGS905 2.3 section 6).

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available.

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

No additional information available.

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional legislation (waste) : Dispose of in accordance with relevant local regulations.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not established.  
Proper Shipping Name (TDG) : Not established.  
Proper Shipping Name (IMDG) : Not established.  
Proper Shipping Name (IATA) : Not established.

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not established.

**TDG**  
Transport hazard class(es) (TDG) : Not established.

**IMDG**  
Transport hazard class(es) (IMDG) : Not established.

**IATA**  
Transport hazard class(es) (IATA) : Not established.

### 14.4. Packing group

Packing group (DOT) : Not established.  
Packing group (TDG) : Not established.  
Packing group (IMDG) : Not established.  
Packing group (IATA) : Not established.

### 14.5. Environmental hazards

Other information : No supplementary information available.

# GRADE 1200

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 14.6. Special precautions for user

#### DOT

No data available

#### TDG

No data available

#### IMDG

No data available

#### IATA

No data available

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

Not established.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Aluminium oxide	1344-28-1			
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9			
POLYCRYSTALLINE WOOL (PCW)	675106-31-7			

### 15.2. International regulations

#### CANADA

No additional information available.

#### EU-Regulations

No additional information available.

#### National regulations

No additional information available.

### 15.3. US State regulations

No additional information available.

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 07/12/2021

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.