

GRADE 1000R is an article within the meaning of REACH (REGULATION (EC) No 1907/2006) and CLP (REGULATION (EC) No 1272/2008). SDSs do not have to be provided for articles. Moreover this article, for which safety information is given, does not contain substances of very high concern, substances of which the use is restricted by the Commission or substances on the Candidate List of Substances of Very High Concern for Authorization (last updated list of 17 December 2014). Even if this article is not subjected to any obligation to classify or label (Art 4 of Regulation (EC) No 1272/2008), Promat has decided to supply several information about identification, first aid and releases measures, expose control, disposal and transport. This safety information supplies information to industrial and professional users on the safe use of this article.

### SECTION 1: Identification of the article and of the company/undertaking

#### 1.1. Product identifier

Product form	: Article
Product name	: GRADE 1000R
Type of product	: Microporous high temperature insulation, Grade family : 1000R and related products. Valid for : MICROTHERM® PANEL-1000R, MICROTHERM® (SEMI-)OVERSTITCHED-1000R, MICROTHERM® (SEMI-)QUILTED-1000R, MICROTHERM® SLATTED-1000R, MICROTHERM® MPS, MICROTHERM® FBK, MICROTHERM® SLIM&LIGHT, MICROTHERM® FLOPPY, FREEFLOW®, PROMALIGHT®-1000R, PROMALIGHT® MACHINED PARTS-1000R, AEROGUARD®-160 SD/ED/HD, AEROGUARD®-190 SD/ED/HD, AEROGUARD®-220 SD/ED/HD
Product group	: High temperature insulation.

#### 1.2. Relevant identified uses of the Article and uses advised against

##### 1.2.1. Use of the Article

Main use category	: Professional use
Function or use category	: High temperature insulation

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

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##### Other

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514-1255 Mie - Japan  
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## 1.4. Emergency telephone number

Emergency number : +32 (0)3 7601980  
During office hours:  
Monday-Friday: 8.00 a.m. - 5.00 p.m. (MEZ) .  
Dutch  
English  
French  
German

## SECTION 2: Hazards identification

### 2.1. Classification of the article

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This product does not meet the criteria for classification in any hazard class according to the CLP Regulation No (EC) 1272/2008 on classification, labelling and packaging.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Can occur: eye irritation, irritation of mucous membranes and skin irritation.  
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.

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.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Not applicable

### 3.3. Article

Components : Amorphous silica, rutile, continuous filament fibre

## 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.

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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 the eye out with plenty of clean water for at least 15 minutes. If eye irritation or inflammation persists, seek medical advice.
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 or doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Irritating to the respiratory system, may cause throat pain and cough. As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the bronchial tubes.
Symptoms/injuries after skin contact	: May cause temporary irritation/skin rash.
Symptoms/injuries after eye contact	: May cause temporary eye irritation.
Symptoms/injuries after ingestion	: None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media can be used.

### 5.2. Special hazards arising from the substance or mixture

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. Advice for firefighters

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 : Minimize 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. Refer to section 8.2. 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. Refer to section 8.2.

### 6.2. Environmental precautions

Prevent spread of dust.

### 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.

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### 7.3. Specific end use(s)

High temperature insulation.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Rutile (1317-80-2)		
United Kingdom	Local name	Titanium dioxide
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> total inhalable
Iceland	Local name	Títandíoxíð, sem Ti
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>

Occupational Exposure Limits / Workplace Exposure Limits for particles not otherwise classified or regulated (nuisance dust) : - in UK: Inhalable: 10 mg/m<sup>3</sup>. Respirable: 4 mg/m<sup>3</sup>  
- in Ireland: Inhalable: 10 mg/m<sup>3</sup>. Respirable: 4 mg/m<sup>3</sup>

SCOEL/SUM/88 - March 2012 recommendation for man made mineral fibers (MMMMF) without indication of carcinogenicity : 1 fibre/ml. (TWA - Average of 8 working hours).

Additional information : Ensure all national/local regulations are observed.

### 8.2. Exposure controls

Appropriate engineering controls : When machining boards (drilling, cutting, sanding, etc.), respect Occupational Exposure Limits (OEL) or Workplace Exposure Limits (WEL in the UK). Check the latest Occupational Exposure Limits (OEL) or Workplace Exposure Limits (WEL in the UK) that are applicable in your country.

Hand protection : Protective gloves

Eye protection : Safety glasses with side shields

Skin and body protection : Wear suitable protective clothing

Respiratory protection : 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 duct mask. For higher exposure, use a P3 type mask)

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: brown.
Odour	: None.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 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.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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### 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.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Rutile (1317-80-2)	
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
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Other information	: Some raw materials may 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 can lessen the potential for exposure. 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). Long and heavy exposure by inhalation of titanium dioxide, may lead to lung fibrosis. Experimental studies with animals exposed to high doses have found lung cancer excesses in some circumstances, but not in others. So far, no human evidence of any carcinogenic potential was found. Titanium dioxide was classified as possibly carcinogenic group 2b by IARC (2006); MAK Kommission (Germany) listed it as a substance that cause concern but are thought not or only very slightly to contribute to human cancer risk. The fibres used in this product do not meet the definition of respirable as defined by WHO convention because of their large size. Because the fibres are considered as non-respirable, they are not expected to pose a cancer risk.

## SECTION 12: Ecological information

### 12.1. Toxicity

Rutile (1317-80-2)	
NOEC (acute)	5600 mg/l

### 12.2. Persistence and degradability

No additional information available

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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose of in accordance with relevant local regulations.  
Waste disposal recommendations : Product (even after use above recommended operating temperature) is not classified as hazardous waste and may generally be disposed of at a normal landfill site that has been licensed for the disposal of industrial waste.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

Carriage prohibited (ADN) : No

Not subject to ADN : No

#### - Rail transport

Carriage prohibited (RID) : No

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

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### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

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