# Safety Data Sheet

Promat

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/22/2021 Supersedes: 10/11/2021 Version: 1.1

SECTION 1: Identification				
1.1. Identification				
Product form Product name	: Mixture : FREEFLOW®-1000R			
1.2. Recommended use and restrictions on	use			
Use of the substance/mixture	: High temperature in	sulation.		
1.3. Supplier				
Supplier Microtherm N.V. Industriepark-Noord 1 Sint Niklaas, 9100 BELGIUM T +32 3 7601980 - F +32 3 760 1999 info@microtherm.be - www.promat-industry.com 1.4. Emergency telephone number		Other Promat Inc. USA 1731 Fred Lawson Drive Maryville, TN, 37801 UNITED STATES T +1 888 681 0155 - F + industryUS@promat.com	-1 865 681 0016	
Emergency number	: Please contact a re	gional poison center or e	mergency telep	hone number.
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixte GHS US classification Not classified 2.2. GHS Label elements, including precaute				
GHS US labelling No labelling applicable				
2.3. Other hazards which do not result in cla	assification			
Other hazards which do not result in classification : Can occur: eye irritation, irritation of mucous membranes and skin irritation. As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the bronchial tubes.				
2.4. Unknown acute toxicity (GHS US)				
Not established.				
SECTION 3: Composition/information on ingredients				
3.1. Substances				
Not established.				
3.2. Mixtures				
Name		Product identifier	%	GHS US classification

≥ 25 - < 50

Not classified

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## **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	<ul> <li>Rinse affected areas with water, taking care not to scratch or rub. Seek medical attention if irritation or symptoms persist.</li> </ul>			
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 measu	res
5.1. Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media	: All extinguishing media can be used.
5.2. Specific hazards arising from th	e chemical
Explosion hazard Reactivity in case of fire	<ul><li>Product is not explosive.</li><li>The product is non-combustible.</li></ul>
5.3. Special protective equipment a	nd precautions for fire-fighters
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release r	neasures
6.1. Personal precautions, protectiv	e 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.

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6.3. Methods and material for contain	ment and cleaning up
For containment Methods for cleaning up	<ul><li>: Use closed containers to avoid dust release.</li><li>: Shovel up small pieces. Dampen down any dust before putting into appropriate skips.</li></ul>
6.4. Reference to other sections	

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

SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Additional hazards when processed	: 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, inclu	Iding any incompatibilities

Storage conditions

: Store in dry, covered and frost proof area.

# SECTION 8: Exposure controls/personal protection

Titanium dioxide	
1 mg/m³	
LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)	
Titanium dioxide (Total dust)	
15 mg/m³	
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. Avoid release to the environment.	

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

#### Eye protection:

Avoid contact with eyes. Use safety glasses whenever tools are used and dusts are produced.

#### Skin and body protection:

Avoid contact with skin. Use working clothes and gloves to protect against mechanical injury and direct skin contact.

#### **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 dust 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
рН	: 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

Percent Solids

: 100 %

# **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.

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### **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.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified		
Rutile (1317-80-2)			
LD50 oral rat	> 5000 mg/kg		
Skin corrosion/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:	Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified		
Viscosity, kinematic:Symptoms/effects after inhalation:Symptoms/effects after skin contact:Symptoms/effects after eye contact:Symptoms/effects after ingestion:	No data available May cause irritation to the respiratory tract and to other mucous membranes. May cause temporary irritation/skin rash. Repeated exposure may cause skin dryness or cracking. May cause temporary eye irritation. None known.		

# **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.		
12.3. Bioaccumulative potential		

No additional information available.

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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) Product/Packaging disposal recommendations	<ul><li>Dispose of in accordance with relevant local regulations.</li><li>Dispose in a safe manner in accordance with local/national regulations.</li></ul>
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) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not established.</li> <li>Not established.</li> <li>Not established.</li> <li>Not established.</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not established.
<b>TDG</b> 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) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not established.</li> <li>Not established.</li> <li>Not established.</li> <li>Not established.</li> </ul>
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	

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#### 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
Rutile	1317-80-2			

## **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**

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#### Indication of changes:

Composition/information on ingredients. Exposure controls/personal protection.

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.