

## Safety Data Sheet

In accordance with Regulation (EC) 1907/2006

### PROMAFOUR® HT JOINTFILLER

Print date: 02.07.2015

Revision: 22.12.2013

#### 1. Identification of the substance/mixture and of the company

##### Identification of the product:

**Trade names:** PROMAFOUR® HT JOINTFILLER

**Registration:** The substances are registered by the suppliers with REACH

**Use of the substance/mixture:** Use of the product by mainly professional users for application as High-Temperature-Filler at temperatures up to 1000 °C, in furnaces, ovens, kilns, stoves and other process equipment.

##### Company/undertaking identification:

Company Name:	Promat International N.V.
Street:	Bormstraat 24
Place:	B-2830 Tisselt
Telephone number:	+32 (0) 15 71 81 09
Fax:	+32 (0) 15 71 81 09
Emergency contact no:	+32 (0) 15 71 81 00

#### 2. Hazards identification

##### Note:

The product is a mixture, in which the ingredients are bound to the binder and in this form do not present a hazard. After being applied (when product is dry) dust could be generated, depending on the application (i.e. mechanical machining) and then the following, that refers to the substance calcined clay as a component, could apply:

##### Classification of the substance or mixture:

This product contains calcined clay (< 20 %) that contains respirable crystalline silica as an impurity. Calcined clay is classified as STOT RE1 according to criteria defined in the Regulation EC 1272/2008 and harmful according to criteria defined in Directive 67/548/EEC due to the potential for generation of airborne respirable crystalline silica.

Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

This product should be handled with care to avoid dust generation.

Regulation EC 1272/2008:

DANGER

STOT RE1

H372: Causes damage to lung through prolonged or repeated exposure by inhalation.

Classification EU (67/548/EEC) :

Symbol letter:

Xn

Indication of danger:

Harmful

R-phrases:

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation

This product contains more than 10% respirable crystalline silica .

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#### Other hazards

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

### 3. Composition/information on ingredients

#### Chemical characterization:

All products are mixtures based on Sodium silicate and Fillers.

#### Hazardous components:

Component	EINECS-No:	CAS-No:	REACH No:
Clay, calcined < 20 %	296-473-8	92704-41-1	Exempted in accordance with Annex V.7
Sodium Silicate < 30 %	215-687-4	1344-09-8	01-2119448725-31-0004

### 4. First Aid Measures

#### After contact with skin:

After contact with skin, wash immediately with plenty of soap and water.

**After contact with eyes:** Rinse immediately carefully and thoroughly with eye-bath or water. Do not rub eyes. Seek medical attention if irritation persists.

#### After swallowing

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

#### After inhalation: (dust of dried product)

If nose or throat becomes irritated, move to a dust free area, drink water and blow nose. If symptoms persist, seek medical advice

### 5. Fire fighting measures

Noncombustible product.

Packaging and surrounding materials may be combustible. Class of fire: 0.

Use extinguishing agent suitable for surrounding area and materials

### 6. Accidental Release Measures:

**As long as the product is not dried the following applies:**

#### 6.1 Personal protection:

Rinse affected areas with water and wash gently

#### 6.2 Methods for cleaning up:

Pick up product mechanically and put in closed pail. For waste disposal refer to section 13.

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#### 6.3 Environmental protection:

Prevent from entering drainage, natural water courses or ground water.

**In case of accidental release of dust (dried product) refer to section 8.**

#### 7. Handling and Storage

**As long as the product is not dried the following applies:**

Advice on safe handling: Avoid contact with eyes, skin and clothing.

Advice on storage: Keep/store in original container above 5 °C. Keep container tightly closed. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. Packaging materials: Recyclable cardboard and plastic containers and plastic films.

**If product is dried refer to section 8.**

#### 8. Exposure controls / personal protection

**Note: As long as the product is not dried the following applies:**

General protection and hygiene measures: Working area to be cleaned when done, wash hands thoroughly

**Hand protection:** Gloves are to be worn

**Eye protection:** Goggles with side-protection are to be worn

Body protection: Work protection clothes are to be worn, in case of overhead working, head protection is to be worn.

**In case of release of dust (only possible if product is dried) the following applies:**

##### 8.1 Control parameters

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust).

The OEL (Occupational Exposure Limit) for respirable crystalline silica dust is 0,15 mg/m<sup>3</sup> in germany, measured as an 8 hour TWA (Time Weighted Average). For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority

##### 8.2 Exposure controls

Appropriate engineering controls

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

#### Personal Protective Equipment

##### Eye/face protection

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye

##### Skin protection

No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing,

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barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

#### Hand protection

Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

#### Respiratory protection

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation.

#### Environmental exposure controls

Avoid wind dispersal.

### 9. Physical and chemical properties

#### 9.1. General information

Physical state:	paste
Color:	beige
Odor:	odorless

#### Important health, safety and environmental information

Changes in the physical state:	
Melting point	: > 1300 °C
Boiling point:	not applicable
Flash point:	not applicable
Flammability:	not applicable

**Explosive properties:** not applicable

Vapour pressure:	not applicable
Density:	1700 Kg/m <sup>3</sup>
Water solubility:	soluble

#### 9.2. Other Information

**Auto-ignition temperature:** not applicable

### 10. Stability and reactivity:

#### 10.1 Conditions to avoid

Non

#### 10.2 Possibility of hazardous reaction

This refers to Sodium Silicate as a component of the mixture (content <30%)  
Exothermic reaction with strong acids  
Can react with light alloys to form hydrogen

#### 10.3 Hazardous decomposition products

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No hazardous decomposition products known.

#### 11. Toxicological information

**Note:** The following information refers only to the sodium silicate as a component of the product.

##### **Irritation:**

Skin contact: Mild irritation possible.

Eye contact: Mild irritation possible.

Sensitization: No sensitizing effects known.

##### **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Note: The following information refers only to the calcined clay as a component (<20%) of the product and only applies if product is dried.**

STOT-single exposure

Based on available data, the classification criteria are not met

STOT-repeated exposure

This product contains respirable crystalline silica as an impurity and therefore is classified as STOT RE1 according to criteria defined in the Regulation EC 1272/2008.

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis.

“There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk...” (SCOEL SUM Doc 94-final, June 2003).

So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

#### 12. Ecological information

**Note: The following information refers only to the sodium silicate as a component of the product.**

##### 12.1 Ecotoxicity

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#### **Aquatic toxicity:**

1344-09-8 Silicic acid, sodium salt, mol ratio > 3,2

EC 50 / 48h > 1000 mg/l (Daphnie)

LC 50 / 96h > 1000 mg/l (Brachydanio rerio)

#### **12.2 Persistence and degradability**

No further relevant information available.

#### **12.3 Bioaccumulative potential**

No further relevant information available.

#### **12.4 Mobility in soil:** No further relevant information available.

##### **Ecotoxicological effects:**

**Remark:** No toxicity after neutralization.

##### **Behaviour in sewage processing plants:**

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

##### **Additional ecological information:**

##### **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### **12.5 Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

#### **12.6 Other adverse effects** No further relevant information available.

### **13. Disposal considerations**

#### **13.1 Waste treatment methods**

##### **Recommendation**

Can be disposed off with rubble after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

##### **European waste catalogue**

Waste catalogue numbers are to be defined according to EWC-Directive, specially for application sectors.

#### **Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### **14. Transport information**

#### **14.1 UN-Number**

ADR, ADN, IMDG, IATA

Void

#### **14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA

Void

#### **14.3 Transport hazard class(es)**

ADR, ADN, IMDG, IATA

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Class	Void
<b>14.4 Packing group</b> ADR, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to</b> <b>Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	-

## 15. Regulatory information

**Note:** The following information refers only to the sodium silicate as a component of the product.

### 15.1 Safety, health and environment regulations/legislation specific for the substances or mixtures

#### National regulations

**Water hazard class:** water hazard class 1: slightly hazardous for water

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out

## 16. Other information

### Third party materials

Insofar as materials not manufactured or supplied by Promat International n.v. are used in conjunction with, or instead of Promat International n.v. materials, it is the responsibility of the customer himself to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of PROMAFOUR® HT JOINTFILLER in conjunction with materials from another supplier.

### Liability

Such information is to the best of Promat International n.v.'s knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

### Training

Workers must be trained in the proper use and handling of this product as required under applicable regulations.

### Social dialogue on respirable crystalline silica

A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on

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request from EUROSIL, the European Association of Industrial Silica Producers.