# PROMAT FENDOLITE® MII

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Revision date: 2/1/2022 Supersedes version of: 1/7/2022 Version: 3.3

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Trade name | : | PROMAT FENDOLITE® MII |
| UFI | : | 2EAS-UDM4-H80J-E38E |
| Product group | : | Fire protective spray. |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

| | | |
|---|---|---|
| Main use category | : | Professional use |
| Use of the substance/mixture | : | Fire protection on structures and vessels in the oil, gas, petrochemical industry, in tunnels and in the construction industry. |

#### 1.2.2. Uses advised against

No additional information available.

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

Etex Middle East LLC
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123945 Dubai - UNITED ARAB EMIRATES
T +971 4 885 3070 - F +971 4 885 3588
info@promatfp.ae - www.promat.com

### 1.4. Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Skin sensitisation, Category 1 | H317 |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 |

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07

| | | |
|---|---|---|
| Signal word (CLP) | : | Danger |
| Contains | : | Portland cement |

Hazard statements (CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P261 - Avoid breathing dust, mist, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).

### 2.3. Other hazards

Other hazards which do not result in classification : Depending upon the source of the Portland cement, the product could be contaminated with chromium VI. - In several countries, the soluble chromium VI is legally limited to 0.0002% of the total dry weight. If soluble chromium VI is present in the Portland cement above the 0.0002%, a reduction agent has been added to it to keep the content of soluble chromium VI under the 0,0002%. The activity of this reduction agent is limited in time, what limits the shelf life of the product. The product should be used within 1 year after its production date. Natural contamination of some substances of the preparation with crystalline silica could occur. No crystalline silica is added to the preparation. According to IARC, crystalline silica inhaled in the form of quartz dust is carcinogenic to humans (Group 1). 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).

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not established.

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Portland cement | (CAS-No.) 65997-15-1<br>(EC-No.) 266-043-4<br>(REACH-no) 02-2119682167-31 | ≤ 50 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : In case of allergy, inflammation or irritation,seek medical advise.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Rinse throat with water and blow nose to evacuate dust.

First-aid measures after skin contact : Remove all dust as much as possible. Take off contaminated clothing. Wash skin thoroughly with mild soap and water.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub the eye. Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get immediate medical advice/attention.

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

Symptoms/effects after inhalation : May cause irritation to the respiratory tract and to other mucous membranes.
Symptoms/effects after skin contact : When moistened by water or sweat, the Portland cement component may lead to skin inflammation, contact dermatitis or even delayed onset burns due to high alkalinity. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Risk of serious damage to eyes. The material is strongly alkaline and may result in chemical burns in case of contact with eyes.
Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## 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

Reactivity in case of fire : Product is not explosive. The product is non-combustible.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO2).

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Evacuate and limit access. Do not breathe dust. Dampen down any dust or use vacuum cleaner with correct filter. Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For non-emergency personnel

Measures in case of dust release : Prevent spread of dust.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Do not allow entry to drains, sewers, water courses or soil.

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

For containment : Use closed containers to avoid dust release.
Methods for cleaning up : Minimise generation of dust. Clear up rapidly by scoop or vacuum. Dampen down any dust or use vacuum cleaner with correct filter. Dispose in a safe manner in accordance with local/national regulations.

### 6.4. Reference to other sections

See sections 7, 8 and 11.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Additional hazards when processed | : | Avoid dust formation. |
| Precautions for safe handling | : | Both local exhaust and general room ventilation are usually required. By generation of dust during processing, the regulatory Occupational Exposure Limits or Workplace Exposure Limits in the UK, for total and respirable dust must be respected. Work in a well ventilated area. Use tools with appropriate dust exhaust equipment. Collect dust with a vacuum cleaner or soak with water before sweeping up. Use always respiratory protective equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits in the UK (refer to local regulations). Avoid contact with skin and eyes. Ensure prompt removal from eyes, skin and clothing. |
| Hygiene measures | : | Use good housekeeping practices to avoid rendering dust airborne. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 locked up. Store in a well-ventilated place. Store in dry, covered and frost proof area. Protect from moisture. Keep bags closed when not in use. Keep away from food, drink and animal feeding stuffs. |
| Incompatible materials | : | Avoid contact with aluminium. |
| Maximum storage period | : | 18 months |
| Storage temperature | : | 5 – 45 °C |
| Information on mixed storage | : | Away from' ammonium salts. 'Separated from' acids. |

### 7.3. Specific end use(s)

Fire protection on structures and vessels in the oil, gas, petrochemical industry.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| PROMAT FENDOLITE® MII | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| | Exposure limit values have been established by many authorities. Check on limit values that apply in your local situation |
| | Observe the national general dust exposure limit when processing. |

#### 8.1.2. Recommended monitoring procedures

No additional information available.

#### 8.1.3. Air contaminants formed

No additional information available.

#### 8.1.4. DNEL and PNEC

No additional information available.

#### 8.1.5. Control banding

No additional information available.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Ensure adequate ventilation.

#### 8.2.2. Personal protection equipment

##### 8.2.2.1. Eye and face protection

| **Eye protection:** |
| --- |
| Safety glasses with side shields. Use splash goggles when eye contact due to splashing is possible. Foresee eye cleaning on the workplace. |

##### 8.2.2.2. Skin protection

| **Skin and body protection:** |
| --- |
| Wear protective waterproof clothing and boots. Use loose work clothes with closed sleeves. Preventive skin protection creams can be used, but not after skin contact with the product. |

| **Hand protection:** |
| --- |
| Use alkali resistant gloves. |

##### 8.2.2.3. Respiratory protection

| **Respiratory protection:** |
| --- |
| 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). Respiratory equipment required during spraying. |

##### 8.2.2.4. Thermal hazards

No additional information available.

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment. Do not allow to enter drains or water courses.

## SECTION 9: Physical and chemical properties

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

| | | |
| --- | --- | --- |
| Physical state | : | Solid |
| Colour | : | Off-white. white. Grey. |
| Appearance | : | Flaky powder. |
| Odour | : | odourless. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Not available |
| Explosive limits | : | Not applicable |
| Lower explosion limit | : | Not applicable |
| Upper explosion limit | : | Not applicable |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | Not applicable |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| pH solution | : | 12 – 13 |
| Viscosity, kinematic | : | Not applicable |
| Solubility | : | Water: Slightly soluble |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50 °C | : | Not available |
| Density | : | Not available |

| | | |
|---|---|---|
| Relative density | : | Not available |
| Relative vapour density at 20 °C | : | Not applicable |
| Particle size | : | Not available |
| Particle size distribution | : | Not available |
| Particle shape | : | Not available |
| Particle aspect ratio | : | Not available |
| Particle aggregation state | : | Not available |
| Particle agglomeration state | : | Not available |
| Particle specific surface area | : | Not available |
| Particle dustiness | : | Not available |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available.

#### 9.2.2. Other safety characteristics

Percent Solids :

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with water.

### 10.2. Chemical stability

Stable under normal conditions. Shelf life is maximum 12 months.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Humidity during storage.

### 10.5. Incompatible materials

Acids. Strong oxidizing agents. ammonium salts. Avoid contact with aluminium.

### 10.6. Hazardous decomposition products

. Alkaline mixture.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| Portland cement (65997-15-1) | |
|---|---|
| LD50 oral | > 2000 mg/kg mouse |
| LD50 dermal rabbit | > 2000 mg/kg LD0 : 2000 mg/kg |

| | | |
|---|---|---|
| Skin corrosion/irritation | : | Causes skin irritation. |
| Additional information | : | Cement powder or a mixture of cement with water can cause irritant contact dermatitis, and/or delayed onset of skin burns. These burns can be very serious in prolonged contact with skin. |
| Serious eye damage/irritation | : | Causes serious eye damage. |

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Additional information : May cause sensitisation of susceptible persons by skin contact
May cause irritation to the respiratory tract.
Contains :
Glyoxal
Tin sulphate
Content of soluble chromium VI : < 0.0002%
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

| Portland cement (65997-15-1) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified
Additional information : The inhalation of dust containing crystalline silica, in particular the fine (respirable) dust fraction, in high concentrations or over a prolonged period of time may lead to lung disease (silicosis) and an increased risk of lung cancer.

Aspiration hazard : Not classified

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

#### 11.2.2 Other information

Potential adverse human health effects and symptoms : Inhaling cement dust may aggravate existing respiratory system disease(s) and/or medical conditions such as emphysema or asthma and/or existing skin and/or eye conditions.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2. Persistence and degradability

| PROMAT FENDOLITE® MII | |
|---|---|
| Persistence and degradability | Not readily biodegradable. |

### 12.3. Bioaccumulative potential

| PROMAT FENDOLITE® MII | |
|---|---|
| Bioaccumulative potential | Not expected to bioaccumulate. |

### 12.4. Mobility in soil

No additional information available.

### 12.5. Results of PBT and vPvB assessment

No additional information available.

### 12.6. Endocrine disrupting properties

No additional information available.

### 12.7. Other adverse effects

Additional information : Accidental spillage of cement powder in waste water, results in a low increase in the pH. Hydrated cement is a stable material that definitely sets its compounds and makes them insoluble. Do not allow entry to drains, sewers, water courses or soil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : In case of disposal, harden with water. Dispose the hardened product as concrete waste.
European List of Waste (LoW) code : 10 13 14 - waste concrete and concrete sludge
17 01 01 - concrete

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR) : Not regulated.
UN-No. (IMDG) : Not regulated.
UN-No. (IATA) : Not regulated.
UN-No. (ADN) : Not regulated.
UN-No. (RID) : Not regulated.

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated.
Proper Shipping Name (IMDG) : Not regulated.
Proper Shipping Name (IATA) : Not regulated.
Proper Shipping Name (ADN) : Not regulated.
Proper Shipping Name (RID) : Not regulated.

### 14.3. Transport hazard class(es)

**ADR**
Transport hazard class(es) (ADR) : Not regulated.

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

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

**ADN**
Transport hazard class(es) (ADN) : Not regulated.

**RID**
Transport hazard class(es) (RID) : Not regulated.

### 14.4. Packing group

Packing group (ADR) : Not regulated.
Packing group (IMDG) : Not regulated.
Packing group (IATA) : Not regulated.

Packing group (ADN) : Not regulated.
Packing group (RID) : Not regulated.

### 14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

### 14.6. Special precautions for user

**Overland transport**
Not regulated.

**Transport by sea**
Not regulated.

**Air transport**
Not regulated.

**Inland waterway transport**
Not regulated.

**Rail transport**
Not regulated.

### 14.7. Maritime transport in bulk according to IMO instruments

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

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | | |
|---|---|---|
| Reference code | Applicable on | Entry title or description |
| 47. | PROMAT FENDOLITE® MII | Chromium VI compounds |

Contains no substance on the REACH candidate list.
Contains no REACH Annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

Other information, restriction and prohibition regulations : REGULATION (EC) n° 1907/2006 - REACH - Annex XVII, RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES, 47:
1.- Cement and cement-containing preparations shall not be used or placed on the market, if they contain, when hydrated, more than 0,0002 % soluble chromium VI of the total dry weight of the cement.
2.- If reducing agents are used the packaging of cement or cement-containing preparations shall be legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.

#### 15.1.2. National regulations

No additional information available.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes: |
|---|
| 14. Transport information. |

| Full text of H- and EUH-statements: | |
|---|---|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|---|---|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |

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.