Promat FENDOLITE®-TG

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: 2.3

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	Promat FENDOLITE®-TG
Type of product	:	Dry powder
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

Supplier
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 - 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

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

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, Flue dust 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. P312 - Call a POISON CENTER if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label).
Extra phrases	:	Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns. May cause damage to products made of aluminium or other non-noble metals.

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 mixture with crystalline silica could occur. 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).”.

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 (EC-No.) 266-043-4 (REACH-no) 02-2119682167-31	40-60	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Flue dust Portland cement	(CAS-No.) 68475-76-3 (EC-No.) 270-659-9 (REACH-no) 01-2119486767-17	<5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335
Fly ashes	(CAS-No.) 68131-74-8 (EC-No.) 268-627-4 (REACH-no) 01-2119491179-27	<20	Eye Irrit. 2, H319

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 : IF exposed or concerned: Get medical advice/attention.

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. If nose or airways become inflamed, seek medical advice.

First-aid measures after skin contact : Remove all dust as much as possible. Take off contaminated clothing. Rinse the skin immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. In case of allergy, seek medical advise.

First-aid measures after eye contact : 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/doctor.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting without medical advice.

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 : The Portland cement components may lead to transient irritation of skin, eyes or respiratory system. 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.

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

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Do not breathe dust. Avoid contact with skin and eyes. Dampen down any dust or use vacuum cleaner with correct filter.

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

6.1.2. For emergency responders

No additional information available.

6.2. Environmental precautions

Do not allow entry to drains, sewers, water courses or soil. Dampen down any dust before putting into skips or use vacuum cleaner with correct filter.

6.3. Methods and material for containment and cleaning up

For containment : Use closed containers to avoid dust release.
Methods for cleaning up : Dampen down any dust or use vacuum cleaner with correct filter. Minimise generation of dust.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See sections 7, 8 and 11.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. 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 all unnecessary exposure. Avoid contact with skin and eyes. Ensure prompt removal from eyes, skin and clothing.
Handling temperature : 4 – 45 °C
Hygiene measures : Use good housekeeping practices to avoid rendering dust airborne. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Protect from moisture. Keep bags closed when not in use. Keep away from food, drink and animal feeding stuffs. Store in dry, covered and frost proof area.
Incompatible materials : Avoid contact with aluminium.
Maximum storage period : 18 months The packaging is marked with the packing date, the storage conditions and the storage period appropriate to maintain the activity of the reducing agent and to keep the content of soluble chromium VI below the limit indicated in section 2.

7.3. Specific end use(s)

Fire protection.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Promat FENDOLITE®-TG	
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:
Provide adequate ventilation to minimize dust concentrations. Ensure exposure is below occupational exposure limits (where available).

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:
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 applicable
Boiling point	:	Not available
Flammability	:	Non flammable.
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 – 12.5 (in aqueous solution).
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	:	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. 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

Strong acids.

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 : 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 sensitisation of susceptible persons by skin contact
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.

Flue dust Portland cement (68475-76-3)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Promat FENDOLITE®-TG	
Viscosity, kinematic	Not applicable

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®-TG	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Promat FENDOLITE®-TG	
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 : To avoid classification as hazardous waste, the product can be cured with water. After curing the product can be handled as non-hazardous waste.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : 10 13 14 - waste concrete and concrete sludge
17 01 01 - concrete
Please refer to the European list (Decision N° 2000/532/CE) to identify the wastes appropriate waste number.

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®-TG	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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
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.