

Safety data sheet
FIRESAFE GPG Marine (powder)

Version 1.0
Effective date: 10-01-2019

FIRESAFE /

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name: FIRESAFE GPG Marine (powder)

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

Product use: Fire sealing of pipe- and cable penetrations in fire bulkheads and decks.

1.3 Details of the Supplier of the safety data sheet:

Company: Firesafe Energy AS
P.B. 6411, Etterstad, 0605 Oslo, Norge.
Robsrudskogen 15, 1470 Lørenskog, Norge
+47 09110 /+47 22722020
+47-23178600
www.firesafeoffshore.no
firmapost@firesafe.no

1.4 Emergency telephone number:

| Country | Organisation/Company | Address | Emergency number |
|----------------|---|---|---|
| United Kingdom | National Poisons Information Service (Newcastle Unit) | Claremont Place Newcastle-upon-Tyne, Newcastle | +44 191 2606182 / +44 191 2606180 (24H) |
| Norway | Giftinformasjonen Directorate of Health and Social Affairs | P.O. Box 7000, St. Olavs Plass 0130 Oslo | +47 22 59 13 00 (24H) Open everyday, 24 hours a day. |
| Other country | Use your national or local emergency number. | | |

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification according to CLP no. 1272/2008.

Eye Dam. 1; H318.

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2.2 Label Elements according to CLP no. 1272/2008:

Hazard pictograms:



Signal word:

Danger

Contains: calcium dihydroxide, potassium methylsilanetriola.

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

General:

P102 Keep out of reach of children.

Prevention:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305 + 351 + 338 + 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/physician.

Storage:

-

Disposal:

-

Additional labeling:

-

2.3 Other hazards.

Not classified as PBT/vPvB by current EU criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

-

3.2 Mixture:

| CAS/EC-no: | REACH-no: | Name | Content % | Classification |
|--------------------------|--------------------------|---------------------|-------------------|--|
| 1305-62-0 / 215-137-3 | 01-211947515145- xxxx | Calcium dihydroxide | 0.6 – pH ≥11.5 | Skin Irrit. 2; H315, Eye Dam. 1, H318, STOT SE 3; H335 |

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| | | | | |
|---------------------------|--------------------------|-----------------------------------|------------|-------------------|
| 31795-24-1 / 250-807-9 | 01-211990013553- xxxx | Potassium methylsilanetriolate | 1 – pH ≥12 | Eye Dam. 1, H318. |
| 7778-18-9 / 231-900-3 | 01-211944491826- xxxx | Calcium sulfate | ≥90 | - |

3.3 Additional information:

Occupational limits are listed in section 8, if these are available.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

- General information:** In case of symptoms or doubt: Contact a doctor or casualty department.
- Inhalation:** Provide fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Skin contact:** Wash with plenty of water and soap. Clean contaminated clothing and shoes before use. If necessary seek medical advice.
- Eye contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses if possible.
- Ingestion:** Rinse mouth immediately and drink plenty of water. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

May cause serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media:** The product is non-flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture:

None.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate personal protective equipment as specified in section 8. Ensure adequate ventilation. Avoid generation of dusts; do not inhale dusts. Avoid direct contact with the product.

6.2 Environmental precautions:

Do not allow uncontrolled release into surface water or drains (pH-rising).

6.3 Methods and material for containment and cleaning up:

Take up mechanically and place into a suitable container for disposal. See section 13. Clean up affected area.

6.4 Reference to other sections:

See section 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

See section 8 for personal protection. Use in well-ventilated conditions. Avoid dust formation. Avoid inhalation of dust/particles. Avoid contact with eyes and skin. Product itself does not burn. No special fire protection measures are necessary. Do not to eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store dry in original packaging. Protect against moist.

7.3 Specific end use(s):

This product should only be used for applications described in section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits WEL (Great Britain) 2018:

| CAS-no: | Name: | Limits: |
|-----------|--|---|
| 1305-62-0 | Calcium dihydroxide - inhalable - respirable - respirable | TWA (8 hour): 5 mg/m ³ TWA (8 hour): 1 mg/m ³ STEL (15 min.): 4 mg/m ³ |

DNEL:

-

PNEC:

Calcium dihydroxide CAS no. 1305-62-0:

Water: 490 µg/l

Soil/groundwater: 1080 mg/l

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Potassium methylsilanetriolate CAS no. 31795-24-1:

Water: 4.2 mg/l

Soil/groundwater: 0.54 mg/kg

Calcium sulfate CAS no. 7778-18-9:

Filter plant: 100 mg/l

8.2 Exposure controls

Appropriate technical measures:

Use in well-ventilated conditions.

General information / Hygiejne measures:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Do not inhale dust/smoke. Avoid contact with eyes and skin.

Personal protective equipment:

Only CE-marked personal protection equipment should be used.

Respiratory protection:

Normally not necessary.
Required when dusts are generated Filter FFP2.

Hand protection:

By long-term hand contact wear protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves: Cotton gloves impregnated with nitrile. EN 374.

Eye protection:

Use safety goggles i frisk of contact. EN 166.

Body protection:

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

| | | | | |
|------------------------------------|------------------------------------|-----------------------------|--|-------------------------|
| Appearance: Solid/powder | Color: White, white-grey | Odor: None | PH – in water: 10-12 | Viscosity: - |
| Flashpoint: - | Boiling point: - | Vapor pressure: - | Density g/cm³: 2.3-3.0 | Pour point: - |
| Solids content: - | Auto-ignition: - | VOC: - | Solubility in water: Soluble - ~2 g/l at 20° | |

9.2 Other information:

Thermal decomposition:

CaO and H₂O ca. 580°C, CaSO₄ and H₂O ca. 700°C, CaO and SO₃ ca. 1000°C.

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity:** No materials known.
- 10.2 Chemical stability:** The mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- 10.4 Conditions to avoid:** None known.
- 10.5 Incompatible materials:** No incompatible materials known.
- 10.6 Hazardous decomposition products:** No hazardous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

- Acute toxicity:** Not classified.
- Calcium sulfate:
Oral – LD50 – Rat: >1581 mg/kg – OECD 420.
Inhalation – LC50 – Rat: >2.61 mg/l – OECD 403.
- Skin corrosion/irritation:** Not classified.
Remark: Frequent or prolonged exposure, eventually strengthened by mechanically effects, could lead to skin irritation.
- Serious eye damage/irritation:** Causes serious eye damage.
- Respiratory or skin sensitization:** 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.
- Additional Information:** -

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** The product is not classified as harmful to the environment.
- 12.2 Persistence and degradability:** No photo-chemical elimination.
- 12.3 Bioaccumulative potential:** No indication of bioaccumulation potential.
- 12.4 Mobility in soil:** Water soluble solid. Natural component in soils. If product enters soil, it will be mobile and may contaminate groundwater.
- 12.5 Result of PBT and vPvB assessment:** Not classified as PBT/vPvB by current EU criteria.
- 12.6 Other adverse effects:** None known.

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods:** Dispose of waste and residues in accordance with local authority requirements. The coding of a waste stream is based on the application of the product by the consumer. Do not allow to enter drains, sewers or water courses.
Option:
- EWC-code:** 17 08 02 Building material made of gypsum, with the exception of those falling under 17 08 01.
- Contaminated packing:** Well emptied cans/containers should be disposed according to packaging materials, if not, like the product.

SECTION 14. TRANSPORT INFORMATION

This product is not classified as dangerous to transport.

| | ADR/RID | IMDG/IMO |
|--|---------|----------|
| 14.1 UN number | - | - |
| 14.2 UN proper shipping name | - | - |
| 14.3 Transport hazard class(es) | - | - |
| 14.4 Packing group | - | - |
| 14.5 Environmental hazards - MP | No | No |

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| | | |
|---------------------------|---|---|
| Other informations | - | - |
|---------------------------|---|---|

14.6 Special precautions for user:

-

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

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SECTION 15. REGULATORY INFORMATION

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

Sources:

Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. EU 830/2015. CLP 1272/2008.

Additional information:

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15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Additional information:

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.

Validated by:

SRS

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