

**Safety data sheet**  
**FIRESAFE GPG Marine (after hardening)**

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 (after hardening)

**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.**

Not classified.

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

Not classified.

**2.3 Other hazards.**

No known special hazards.

# Safety data sheet

## FIRESAFE GPG Marine (after hardening)

Version 1.0

Effective date: 10-01-2019

# FIRESAFE /

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

-

### 3.2 Mixture:

Mixture of calcium sulphate, calcium dihydroxide, potassium methylsilanthriolate and non-classified substances.

CAS/EC-no:	REACH-no:	Name	Content %	Classification
7778-18-9 / 231-900-3	01-211944491826- xxxx	Calcium sulfate	-	-

### 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 normal use, no hazards are expected.

#### Inhalation:

Remove to fresh air, seek medical advice if irritation persists.

#### Skin contact:

Wash with soap and water. Wash contaminated clothing and shoes before reuse. Seek medical advice if irritation persists.

#### Eye contact:

Flush eyes with water while holding eyelids open for 10-15 minutes, seek medical advice if irritation persists.

#### Ingestion:

Rinse mouth thoroughly and drink then plenty of water. Seek medical advice.

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

None known.

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

Treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media:

All standard media; product is non-flammable.

### Unsuitable extinguishing media:

None known.

### 5.2 Special hazards arising from the substance or mixture:

None.

# Safety data sheet

## FIRESAFE GPG Marine (after hardening)

Version 1.0

Effective date: 10-01-2019

# FIRESAFE /

**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. Avoid dust formation. Ensure adequate ventilation. In the event of spillage, surfaces can become slippery in contact with water.

### 6.2 Environmental precautions:

Prevent runoff and contact with waterways, drains or sewers.

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

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

### 6.4 Reference to other sections:

See section 7, 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.

### 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):

CAS-no:	Name:	Limits:
-	Dust inhalable - respirable	TWA (8 hour): 10 mg/m <sup>3</sup> TWA (8 hour): 4 mg/m <sup>3</sup>

DNEL / PNEC:

-

# Safety data sheet

## FIRESAFE GPG Marine (after hardening)

Version 1.0

Effective date: 10-01-2019

# FIRESAFE /

### 8.2 Exposure controls

#### Appropriate technical measures:

Use in well-ventilated conditions, especially if used indoor.

#### 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:

<b>Appearance:</b> Solid/powder	<b>Color:</b> White-green, light-green	<b>Odor:</b> None	<b>PH – in water:</b> 7	<b>Viscosity:</b> -
<b>Flashpoint:</b> -	<b>Boiling point:</b> -	<b>Vapor pressure:</b> -	<b>Density g/cm<sup>3</sup>:</b> 2.3-3.0	<b>Pour point:</b> -
<b>Solids content:</b> -	<b>Auto-ignition:</b> -	<b>VOC:</b> -	<b>Solubility in water:</b> Soluble	

### 9.2 Other information:

Thermal decomposition of gypsum:  $\text{CaSO}_4 \times 1/2 \text{H}_2\text{O}$  and  $\text{H}_2\text{O}$  ca. 140°C,  $\text{CaO}$  and  $\text{SO}_3$  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.

# Safety data sheet

## FIRESAFE GPG Marine (after hardening)

Version 1.0

Effective date: 10-01-2019

# FIRESAFE /

**10.5 Incompatible materials:** No incompatible materials known.

**10.6 Hazardous decomposition products:**

No hazardous decomposition products known. Decomposition begins above: 1450°C. Decomposition to form: Sulfur trioxide and calcium oxide

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological effects:

<b>Acute toxicity:</b>	Not classified.  Calcium sulfate: Oral – LD50 – Rat: >1581 mg/kg – OECD 420. Inhalation – LC50 – Rat: >2.61 mg/l – OECD 403.
<b>Skin corrosion/irritation:</b>	Not classified.
<b>Serious eye damage/irritation:</b>	Not classified.
<b>Respiratory or skin sensitization:</b>	Not classified.
<b>Germ cell mutagenicity:</b>	Not classified .
<b>Carcinogenicity:</b>	Not classified.
<b>Reproductive toxicity:</b>	Not classified. Calcium sulphate: NOAEL 790 mg/kg – no effects – OECD 422.
<b>Specific target organ toxicity - single exposure:</b>	Not classified.
<b>Specific target organ toxicity – repeated exposure:</b>	Not classified.
<b>Aspiration hazard:</b>	Not classified.
<b>Additional Information:</b>	Information on the likely routes of exposure: Inhalation of dust.

## SECTION 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity:</b>	The product is not classified as harmful to the environment.  Calcium sulfate: Fish – LC50 – 96 h.: >79 mg/l – OECD 203 Daphnia – EC50 – 48 h.: >79 mg/l – OECD 202 Algae – EC50 – 72 h.: >79 mg/l – OECD 201 Toxicity opposite to sewage treatment plants microorganisms – EC50 – 3 h.: >790 mg/l – OECD 209
-----------------------	---

# Safety data sheet

## FIRESAFE GPG Marine (after hardening)

Version 1.0

Effective date: 10-01-2019

# FIRESAFE /

### 12.2 Persistence and degradability:

The product rapidly hydrolyzes calcium and sulfate ions in the presence of water. The individual components are difficult to eliminate from the water.

### 12.3 Bioaccumulative potential:

No indication of bioaccumulation potential.

### 12.4 Mobility in soil:

Water-soluble solid calcium sulfate. Calcium sulfate is a natural component in soils. In case of penetration into the ground the product is mobile and can contaminate the ground water.

### 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.

17 09 04 Mixed construction and demolition waste with the exception of those falling under 17 09 01, 17 09 02 and 17 09 03

### 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

# Safety data sheet

## FIRESAFE GPG Marine (after hardening)

Version 1.0

Effective date: 10-01-2019

# FIRESAFE /

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:**

-

## 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:**

-

**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:**

-

**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

[www.msds-eu.com](http://www.msds-eu.com)