



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## PYRO-SAFE® BIOFERM S

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P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

### Additional advice on labelling

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

### Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Pictograms:



### Hazard statements

H317

### Precautionary statements

P101-P102-P103-P261-P272-P280-P302+P352-P321-P333+P313-P362+P364-P501

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

High risk of slipping due to leakage/spillage of product.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
22984-54-9	Butan-2-one O,O',O''-(methylsilyldiyl)trioxime	1 - 3 %		
	245-366-4		01-2119970560-38	
	Eye Irrit. 2, Skin Sens. 1B, STOT RE 2; H319 H317 H373			
15901-40-3	N,N',N''-tricyclohexyl-1-methylsilanetriamine	1 - 3 %		
	240-040-8		01-2120765341-58	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1; H312 H302 H314 H318			
96-29-7	2-butanone oxime, ethyl methyl ketone oxime, ethyl methyl ketoxime	0,1 - 1 %		
	202-496-6	616-014-00-0	01-2119539477-28	
	Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1; H351 H312 H318 H317			

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated clothes and wash before re-use.

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### After inhalation

Take affected person into fresh air. Consult a physician.  
Get medical attention, if respiratory irritation develops or if breathing becomes difficult.

### After contact with skin

Remove contaminated soaked clothing immediately.  
In case of contact with skin wash off immediately with plenty of water.  
Consult a doctor if skin irritation persists.

### After contact with eyes

Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.  
Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials. Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

### After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a physician.

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

Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Symptoms of eye or skin irritation: burning, redness, swelling

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

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Product itself does not burn. Use fire fighting measures that suit the environment and products stored.  
Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray

#### Unsuitable extinguishing media

Full water jet

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

None

### 5.3. Advice for firefighters

In case of fire formation of dangerous gases possible.  
In case of fire, wear suitable respiratory equipment with positive air supply.

### Additional information

Remove product from area of fire, or otherwise cool containers with water to avoid pressure being build up due to heat.

## SECTION 6: Accidental release measures

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

Avoid contact with eyes, skin or mucous membrane. Do not breathe vapours and aerosols.  
Ensure adequate ventilation, especially in confined areas.  
High risk of slipping due to leakage/spillage of product.

### 6.2. Environmental precautions

Do not discharge large amounts into the drains or bodies of water. Inform competent authority about release into the sewage, ground or into waters.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

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### **6.4. Reference to other sections**

Information for disposal see section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

No special measures necessary if used correctly.  
Do not keep containers unlocked.  
Observe the technical data sheet.

#### **Advice on protection against fire and explosion**

No special precautions required.

#### **Further information on handling**

When using do not eat, drink or smoke.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.  
Keep only in original container.

#### **Further information on storage conditions**

No special storage conditions required.

### **7.3. Specific end use(s)**

See identified use in SECTION 1.2

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Additional advice on limit values**

To date, no national critical limit values exist.

### **8.2. Exposure controls**



#### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

#### **Protective and hygiene measures**

Take the usual precautions when handling with chemicals.  
Wash hands before breaks and at the end of workday.  
When using do not eat, drink or smoke.

#### **Eye/face protection**

Tightly fitting goggles (EN 166).

#### **Hand protection**

Chemical-resistant gloves (EN 374), Safety gloves for the site (EN420, Cat. 1 or 2).  
Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

#### **Skin protection**

Protective clothing

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### Respiratory protection

Not required under normal use.

## SECTION 9: Physical and chemical properties

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

Physical state:	Pasty
Colour:	according to product specification
Odour:	Characteristic

#### Changes in the physical state

Melting point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	> 93 °C
Sustaining combustion:	Not sustaining combustion

#### Flammability

Solid:	Not applicable
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#### Explosive properties

The product is not explosive.

Lower explosion limits:	Not applicable
Upper explosion limits:	Not applicable
Ignition temperature:	~ 435 °C

#### Auto-ignition temperature

Solid:	No data available
Decomposition temperature:	No data available

#### Oxidizing properties

Not fire-promoting.

Vapour pressure:	23 hPa
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Density (at 20 °C):	1,40 g/cm <sup>3</sup>
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Water solubility:	No data available
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#### Solubility in other solvents

No data available

Partition coefficient:	No data available
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Viscosity / dynamic:	No data available
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Viscosity / kinematic:	No data available
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### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity with the intended use is not associated with any hazards.

### 10.2. Chemical stability

Chemically stable.

### 10.3. Possibility of hazardous reactions

None under normal processing.

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### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

### **10.5. Incompatible materials**

Strong acids., strong oxidizing agents

### **10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.  
Releases toxic gases / smoke when burned.

### **Further information**

Keep only in original container.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicokinetics, metabolism and distribution**

Health injuries are not known or expected under normal use.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
15901-40-3	N,N',N''-tricyclohexyl-1-methylsilanetriamine				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
96-29-7	2-butanone oxime, ethyl methyl ketone oxime, ethyl methyl ketoxime				
	dermal	ATE 1100 mg/kg			

#### **Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

#### **Sensitising effects**

May cause an allergic skin reaction. (Butan-2-one O,O',O''-(methylsilyldiyl)trioxime; 2-butanone oxime, ethyl methyl ketone oxime, ethyl methyl ketoxime)

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Ecological data are not available.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
96-29-7	2-butanone oxime, ethyl methyl ketone oxime, ethyl methyl ketoxime					
	Acute crustacea toxicity	EC50	750 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

Biodegradable.

### 12.3. Bioaccumulative potential

There is no indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
96-29-7	2-butanone oxime, ethyl methyl ketone oxime, ethyl methyl ketoxime	0,63

### 12.4. Mobility in soil

Not determined

### 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

### 12.6. Other adverse effects

Not determined

### Further information

Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not discharge into the drains/surface waters/ground water. The waste code number must be agreed with the disposer / manufacturer / competent authority. Waste disposal according to local regulations.

#### List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

080499 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); wastes not otherwise specified

#### Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Cleaning agent: Water

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

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**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

#### EU regulatory information

2004/42/EC (VOC): < 30 g/l  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Changes

Changes in chapter: 1.1, 4.1, 4.2, 5.3, 7.3, 9.1, 15.1

### Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals



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### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1B; H317	Calculation method

### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*