

# SAFETY DATA SHEET

## Apyrum 1002.12

**DEFLAMO**

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued	20.04.2016
Revision date	02.10.2018

#### 1.1. Product identifier

Product name	Apyrum 1002.12
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#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Function	Description: Flame retardant
Relevant identified uses	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU12 Manufacture of plastics products, including compounding and conversion ERC3 Formulation in materials C20 Other

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

Company name	Deflamo AB (publ)
Postal address	Västra Kajen 8
Postcode	SE-374 31
City	KARLSHAMN
Country	SWEDEN
Telephone number	+46 (0)40-619 95 00
Email	<a href="mailto:info@deflamo.com">info@deflamo.com</a>
Website	<a href="http://www.deflamo.com">http://www.deflamo.com</a>
Enterprise No.	556648-6204

#### 1.4. Emergency telephone number

Emergency telephone	Telephone number: 112 Description: Tel Emergency
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## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Acute tox. 4; H302
	Skin Irrit. 2; H315
	Eye Dam. 1; H318
	STOT SE 3; H335

### 2.2. Label elements

#### Hazard pictograms (CLP)



Signal word	Danger
Hazard statements	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	P264 Wash thoroughly after handling. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell. P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### 2.3. Other hazards

Other hazards	None
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## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Description of the mixture	Calcium Oxalate 5794-28-5 Acute Tox. 4, H302, H312 15-35% Calcium Phosphate mix: Dicalcium Pyrophosphate 7790-76-3 Skin Irrit.2, Eye Irrit. 2, STOT SE 3, H315, H319, H335 0-17% Dicalcium Phosphate dihydrate 7789-77-7 Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, H315, H319, H335 0-17% Calcium dihydroxide (impurity) 1305-62-0 Skin Irrit. 2, Eye Dam. 1, STOT SE 3,
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H315, H318, H335, 0-5%

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	When obtaining medical advice, show this safety data sheet to the doctor
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. Seek medical advice in case of persistent discomfort.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If medical advice is needed, have safety data sheet at hand.
Ingestion	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.

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

General symptoms and effects	May cause slight irritation to the skin and eyes.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Other information	No special immediate treatment required.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist.
Improper extinguishing media	Not applicable

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

Fire and explosion hazards	Avoid inhalation of vapour and fumes - seek fresh air. Not flammable. No risk of dust explosion.
Hazardous combustion products	Carbon oxides and Alkaline earth metal oxides.

### 5.3. Advice for firefighters

Personal protective equipment	Use personal protective equipment as required.
Fire fighting procedures	Fight fire with normal precautions from a reasonable distance.
Other information	Send contaminated extinguishing water for destruction. Product has low solubility in water.

## SECTION 6: Accidental release measures

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

Personal protection measures	Wear protective gloves / protective clothing / eye protection / face protection.
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For emergency responders	Avoid contact with skin or eye. Deployment personnel: normal protective clothing equivalent to EN 469 is recommended.
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## 6.2. Environmental precautions

Environmental precautionary measures	Avoid release to the environment. Notify proper authorities in case of discharge to water systems.
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## 6.3. Methods and material for containment and cleaning up

Containment	Store in a closed container.
Clean up	Collect spillage.

## 6.4. Reference to other sections

Other instructions	See section 7 for safe handling. See section 8 for type of personal protective equipment. See section 13 for disposal information.
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# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Handling	Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed.
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## 7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep container tightly closed. Keep out of reach of children. Protect from moisture. Store in a dry place. Protect from sunlight.
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## 7.3. Specific end use(s)

Specific use(s)	See product information.
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# SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters

Other Information about threshold limit values	Calcium hydroxide Cas-no 1305-62-0 8-hour TWA: 5 mg/m3 EE= substance has OE-limit
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## DNEL / PNEC

DNEL	Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 1 mg/m3
	Group: Professional Route of exposure: Acute inhalation (local) Value: 4 mg/m3

## 8.2. Exposure controls

### Safety signs



### Precautionary measures to prevent exposure

Appropriate engineering controls	General industrial hygiene.
Instruction on measures to prevent exposure	Wash hands before breaks and at the end of work. Wear personal protective equipment as specified below.

### Eye / face protection

Suitable eye protection	Use eye protection tested and approved by appropriate standards like NIOSH (US) or EN 166 (EU).
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### Hand protection

Hand protection equipment	Description: Wear safety gloves. Gloves must be inspected prior to use.
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### Skin protection

Suitable protective clothing	Choose body protection in relation to art of work, to the concentration and amount of dangerous substances and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
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### Respiratory protection

Respiratory protection necessary at	In case of inadequate ventilation wear respiratory protection.
Recommended type of equipment	Use filter type P3 according to EN149.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid substance Powder
Colour	White
Odour	Odorless
pH	Status: In aqueous solution Value: 7 - 9,5
Flammability (solid, gas)	Non-flammable
Density	Value: 1,8 - 2,0 g/cm3
Bulk density	Value: 0,7 - 1,0 g/cm3
Solubility	Medium: Water Comments: Low solubility

Decomposition temperature	Value: > 250 °C
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## 9.2. Other information

### Physical hazards

Explosives	Comments: Non explosive material
Particle size	Value: 20 micrometer Comments: Avoid dust

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Non-reactive
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### 10.2. Chemical stability

Stability	The product is stable when used in accordance with the supplier's directions.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No risk of hazardous reactions.
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### 10.4. Conditions to avoid

Conditions to avoid	None known
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### 10.5. Incompatible materials

Materials to avoid	Avoid contact with strong oxidizing agents. Avoid contact with strong acids. Avoid contact with alkaline substances.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Product decomposes in fire conditions and gases such as Carbon oxides and Alkaline earth metal oxides may be released.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Other information regarding health hazards

General	Dicalcium pyrophosphate: LD 50 Oral > 2000 mg/kg OECD Guideline 420 Calcium dihydroxide: LD 50 Oral > 7340 mg/kg OECD Guideline 420
Inhalation	Inhalation of dust may cause irritation to the upper airways.
Skin contact	May cause slightly irritation, dehydrating.
Eye contact	May cause irritation.
Ingestion	Ingestion may cause discomfort.
Carcinogenicity, other information	No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic, fish	Toxicity type: Acute Value: 160 - 240 mg/l Method: LD 50, OECD Guideline 203 Test reference: Acute Toxicity Test Comments: Calcium dihydroxide
Acute aquatic, algae	Value: 100 mg/l Test duration: Growth Inhibition Test Method: LD 50, OECD Test Guideline 201 Comments: Information applies to a certain component in the mixture: Calcium dihydroxide

### 12.2. Persistence and degradability

Persistence and degradability description	No data available
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	No data available
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### 12.4. Mobility in soil

Mobility	No data available
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	The product does not meet the criteria for PBT or vPvB.
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### 12.6. Other adverse effects

Other adverse effects, comments	None
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Leave surplus and non-recyclable solutions to companies with waste disposal permission.
EWC waste code	EWC waste code: 16 03 05 organic wastes containing dangerous substances Classified as hazardous waste: Yes
EWL packing	EWC waste code: 15 01 10 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes
EU Regulations	2008/98/EC
Other information	Waste and used packaging material is classified as hazardous waste. Leave this to a company with authorization to handle hazardous waste.

## SECTION 14: Transport information

Dangerous goods	No
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### 14.1. UN number

### 14.2. UN proper shipping name

ADR / RID / ADN	Not dangerous goods
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IMDG	Not dangerous goods
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ICAO / IATA	Not dangerous goods
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### 14.3. Transport hazard class(es)

Comments	Not applicable
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### 14.4. Packing group

Comments	Not applicable
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### 14.5. Environmental hazards

IMDG Marine pollutant	No
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ICAO / IATA	No
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### 14.6. Special precautions for user

Special safety precautions for user	Not applicable
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### 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

### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## SECTION 16: Other information

Supplier's notes	The information in this document is based on the present state of knowledge and experience. It is the user's responsibility to use this product in a safe manner and comply with all applicable laws and regulations regarding to use of the product. The user should be aware that the use of the product for purposes other than those for which it is produced, are a potential risk.
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List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
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Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335
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Version	4
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