

# SAFETY DATA SHEET

## Apyrum 201 Liquid

# 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	25.09.2018

### 1.1. Product identifier

Product name	Apyrum 201 Liquid
Synonyms	Apyrum 201 Heavy, Apyrum 201 Bio Canvas, Apyrum 20150, Apyrum 20150wa, Apyrum 20130, Apyrum 20130wa

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

Function	Description: Flame retardant
Relevant identified uses	<p>SU5 Manufacture of textiles, leather, furPROC1 Use in closed process, no likelihood of exposurePROC11 Non-industrial sprayingAC06 Fabrics, textiles and apparel: curtains, upholstery, carpeting/flooring, rugs,</p> <p>SU6 Manufacture of pulp, paper and paper productsPROC1 Use in closed process, no likelihood of exposurePROC7 Industrial sprayingC20 Other</p> <p>C20 Other</p> <p>ERC3 Formulation in materials</p>

### 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: Emergency number
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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]	Eye Irrit. 2; H319
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### 2.2. Label elements

#### Hazard pictograms (CLP)



Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P264 Wash thoroughly after handling. 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.

### 2.3. Other hazards

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

### 3.2. Mixtures

Description of the mixture	Tetrapotassium Pyrophosphate 7320-34-5 Eye Irrit. 2, H319 1-10%
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## 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/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If medical advice is needed, have product container or label 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 light irritation of 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.
Hazardous combustion products	Carbon oxides, alkali metal, Alkaline 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 is soluble 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. Avoid contact with eyes.
For emergency responders	Deployment personnel: normal protective clothing equivalent to EN 943-2 is recommended.

### 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.
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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 sunlight. Store in a well-ventilated place.
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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

#### DNEL / PNEC

DNEL	Group: Professional
	Route of exposure: Long-term inhalation (systemic) Value: 2,79 mg/m <sup>3</sup> Comments: Tetrapotassiumpyrophosphate
DNEL	Group: Consumer
	Route of exposure: Long-term inhalation (systemic) Value: 0,68 mg/m <sup>3</sup> Comments: Tetrapotassiumpyrophosphate
PNEC	Value: 0,005 mg/l Comments: Tetrapotassiumpyrophosphate Comments: Salt water
	Value: 0,05 mg/l Comments: Tetrapotassiumpyrophosphate Comments: Sweet water
	Value: 0,5 mg/l Comments: Tetrapotassiumpyrophosphate Comments: Sweet water
	Value: 0,005 mg/l Comments: Tetrapotassiumpyrophosphate Comments: Salt water

### 8.2. Exposure controls

Limitation of exposure on workplace	Not applicable
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#### 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 equipment for eye protection tested and approved under appropriate standards such as NIOSH (US) or EN 166 (EU).
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## Hand protection

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

Suitable protective clothing	Choose body protection in relation to type of work, to the concentration and amount of dangerous substances, and to the layout of the specific work-station. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work-station.
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## SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Colour	Transparent to slightly yellowish
Odour	Odourless to slight smell of vinegar
pH	Status: In delivery state Value: 7,0 - 8,0
Flash point	Comments: Not flammable
Flammability (solid, gas)	Non-flammable
Density	Value: 1,13 - 1,38 g/cm <sup>3</sup>
Solubility	Comments: Apyrum 201 is fully soluble in water
Decomposition temperature	Value: > 250 °C

### 9.2. Other information

#### Other physical and chemical properties

Comments	None
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## 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 and stored 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, Alkaline metal and Alkaline metal oxides may be released.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Type of toxicity: Aspiration
	Effect tested: LC50
	Route of exposure: Inhalation.
	Method: OECD Test Guideline 403
	Duration: 4 hour(s)
	Value: > 1,1 mg/l
	Species: Rat
	Gender: Male and female
	Comments: Tetrapotassium pyrophosphate
Type of toxicity: Skin irritation	
Effect tested: LD50	
Route of exposure: Dermal	
Value: > 4640 mg/kg	
Species: Rabbit	
Comments: Tetrapotassium pyrophosphate	
Type of toxicity: Skin irritation	
Effect tested: LD50	
Route of exposure: Dermal	
Method: OECD Test Guideline 402	
Value: > 2000 mg/kg	
Species: Rabbit	
Comments: Tetrapotassium pyrophosphate	

### Other information regarding health hazards

Skin corrosion / irritation test result	Toxicity type: Skin irritation Method: OECD Test Guideline 404
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	Species: Rabbit Evaluation result: No skin irritation Comments: Tetrapotassium pyrophosphate
Eye damage or irritation, test results	Toxicity type: Eye irritation Method: OECD Test Guideline 405 Species: Rabbit Evaluation result: Irritating to eyes Comments: Tetrapotassium pyrophosphate
General	None known
Carcinogenicity, other information	None

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic, Daphnia	Value: > 100 mg/l Effect dose concentration : EC50 Exposure time: 48 hour(s) Method: Static test EC50 Comments: Tetrapotassium pyrophosphate
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### 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	No known significant effects or critical hazards
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Offer surplus and non-recyclable solutions to a licensed disposal company.
EWC waste code	EWC waste code: 16 03 03* Classified as hazardous waste: Yes
EWL packing	EWC waste code: 15 01 10* Classified as hazardous waste: Yes

EU Regulations	2008/98/EG
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## 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

ADR / RID / ADN	No
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IMDG Marine pollutant	No
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ICAO / IATA	No
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Comments	Not applicable
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### 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

### 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 according to above laws and is based on the present state of knowledge and experience. It is the users 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)	H319 Causes serious eye irritation.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Irrit. 2; H319;
Version	2