

# SAFETY DATA SHEET

## WEHOPUTS NUTRIENT SOLUTION

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	11.11.2019
Revision date	11.11.2019

#### 1.1. Product identifier

Product name	WEHOPUTS NUTRIENT SOLUTION
UFI	FCYS-M3XX-G30W-MPKP

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

Use of the substance / preparation	Water treatment material. Biological treatment of wastewater.
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#### 1.3. Details of the supplier of the safety data sheet

##### Downstream user

Company name	UPONOR INFRA OY
Office address	Kouvolantie 365
Postcode	15560
City	Nastola
Country	Suomi
Telephone number	+358 20 129 211
Email	<a href="mailto:infofi@uponor.com">infofi@uponor.com</a>
Website	<a href="http://www.uponor.fi">www.uponor.fi</a>
Enterprise No.	FI25001763

#### 1.4. Emergency telephone number

Emergency telephone	Description: Poison Information Centre, Tukholmankatu 17, P.O.Box 790, FI-00029 HUS Helsinki), Finland tel. (24 h) / 09-4711 (exchange), 09-471977 (direct)
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Flam. Liq. 2; H225
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## 2.2. Label elements

### Hazard pictograms (CLP)



Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves / protective clothing / eye protection / face protection. P403+P235 Store in a well-ventilated place. Keep cool.
Supplemental label information	P501 Dispose of contents / container according to local regulations.

## 2.3. Other hazards

PBT / vPvB	This substance is not classified as PBT or vPvB.
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## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Composition type	Mixture			
Substance	Identification	Classification	Contents	Notes
Ethanol, denaturated	CAS No.: 64-17-5 EC No.: 200-578-6 REACH Reg. No.: 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	30 - 35 %	
Remarks, substance	Ethanol. Eye Irrit. 2; : C ≥ 50 %			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.
Inhalation	Move into fresh air and keep at rest. Rinse nose and mouth with water.
Skin contact	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Contact physician if irritation persists.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist.

Ingestion	Immediately rinse mouth and drink plenty of water 200 - 300 ml). Do not induce vomiting. Get medical advice/attention.
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#### 4.2. Most important symptoms and effects, both acute and delayed

General symptoms and effects	May irritate and cause redness and pain.
Acute symptoms and effects	Causes serious eye irritation.

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

Medical treatment	Treat Symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Avoid water in straight hose stream; will scatter and spread fire.

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

Fire and explosion hazards	Highly flammable liquid and vapour.
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#### 5.3. Advice for firefighters

Personal protective equipment	Self contained breathing apparatus and full protective clothing must be worn in case of fire.
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### SECTION 6: Accidental release measures

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

General measures	Provide adequate ventilation. Eliminate all ignition sources if safe to do so.
Protective equipment	Use personal protective equipment as required.

#### 6.2. Environmental precautions

Environmental precautionary measures	Runoff or release to sewer, waterway or ground is forbidden. Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.
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#### 6.3. Methods and material for containment and cleaning up

Clean up	Ventilate well. Dilute with copious amounts of water. Collect larger spills and deliver for recycling. Smaller quantities of residue may be collected by an absorbent.
Other information	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

#### 6.4. Reference to other sections

Other instructions	For personal protection, see section 8. For waste disposal, see section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Handling

Provide sufficient air exchange and/or exhaust in work rooms. Work practice should minimize contact. Do not smoke or use open fire, or other sources of ignition. Ground container and transfer equipment to eliminate static electric sparks. Use explosion proof electric equipment.

### Protective safety measures

#### Protective safety measures

Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

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

#### Storage

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

### 7.3. Specific end use(s)

#### Specific use(s)

Water treatment material.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Ethanol, denaturated	CAS No.: 64-17-5	Country of origin: Finland Limit value (8 h) : 1000 ppm Limit value (8 h) : 1900 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 1300 ppm <b>Limit value (short term)</b> Value: 2500 mg/m <sup>3</sup>	

### DNEL / PNEC

#### DNEL

Group: Professional  
Route of exposure: Long-term inhalation (local)  
Value: 950 mg/m<sup>3</sup>  
Comments: (Ethanol)

Group: Professional  
Route of exposure: Acute inhalation (local)  
Value: 1900 mg/m<sup>3</sup>  
Comments: (Ethanol)

Group: Professional  
Route of exposure: Long-term dermal (local)  
Value: 343 mg/kg  
Comments: (Ethanol)

Group: Consumer  
Route of exposure: Acute inhalation (local)

PNEC	Value: 950 mg/m <sup>3</sup> Comments: (Ethanol)
	Group: Consumer Route of exposure: Long-term dermal (local) Value: 206 mg/kg Comments: (Ethanol)
	Group: Consumer Route of exposure: Long-term inhalation (local) Value: 114 mg/m <sup>3</sup> Comments: (Ethanol)
	Route of exposure: Freshwater Value: 0,96 mg/l Comments: (Ethanol)
	Route of exposure: Soil Value: 0,63 mg/kg Comments: (Ethanol)
	Route of exposure: Saltwater Value: 0,79 mg/l Comments: (Ethanol)

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

Appropriate engineering controls	No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.
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### Eye / face protection

Required Properties	Wear approved, tight fitting safety glasses where splashing is probable.
Suitable eye protection	Wear tight-fitting goggles or face shield.
Additional eye protection measures	Eyewash bottle with clean water.

### Hand protection

Skin- / hand protection, short term contact	Protective gloves are recommended.
Suitable gloves type	Rubber gloves are recommended.
Suitable materials	Neoprene. Nitrile. Butyl rubber. Viton rubber (fluor rubber).
Hand protection, comments	Other types of gloves can be recommended by the glove supplier.

### Skin protection

Suitable protective clothing	Wear appropriate clothing to prevent any possibility of skin contact.
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## Respiratory protection

Respiratory protection necessary at	Under normal conditions of use respiration protection should not be required. Suitable respiratory protection must be used at high concentrations.
Recommended type of equipment	Use chemical cartridge protection with appropriate cartridge. (A)

## SECTION 9: Physical and chemical properties

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

Form	Liquid
Physical state	Liquid.
Colour	Dark brown.
Odour	Slightly pungent odour.
pH	Value: ~ 5
Freezing point	Value: < - 36 °C
Boiling point / boiling range	Value: > 78 °C Comments: Ethanol.
Flash point	Value: ~ 15 °C
Evaporation rate	Comments: Not determined.
Lower explosion limit with unit of measurement	Value: 3,3 % Comments: Ethanol.
Upper explosion limit with units of measurement	Value: 19 % Comments: Ethanol.
Vapour pressure	Value: 5,85 kPa Comments: Ethanol.
Vapour density	Comments: Not determined.
Density	Value: 1,0163 kg/m <sup>3</sup> Method: ASTM D-4052 Temperature: 20 °C
Solubility	Medium: Water Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: No data recorded.
Spontaneous combustability	Value: 363 - 425 °C Comments: Ethanol.
Decomposition temperature	Comments: No data recorded.
Viscosity	Comments: Not determined.
Explosive properties	No information.
Oxidising properties	No information.

### 9.2. Other information

## Other physical and chemical properties

Physical and chemical properties	No data recorded.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Highly flammable. Keep away from heat / sparks / open flames / hot surfaces. – No smoking.
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### 10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Exothermic reaction with: Strong acids. Strong alkalis. Oxidising materials.
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### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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### 10.5. Incompatible materials

Materials to avoid	Strong oxidising substances, strong acids and strong bases.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Not known.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Effect tested: LD50 Route of exposure: Dermal Value: 10470 mg/kg Species: Rat Comments: Ethanol.
	Effect tested: LD50 Route of exposure: Dermal Value: 15800 mg/kg Species: Rabbit Comments: Ethanol.
	Effect tested: LC50 Route of exposure: Inhalation. Value: 51 - 55 mg/l Species: Rat Comments: Ethanol.
	Effect tested: LC50

Route of exposure: Inhalation.  
 Value: 30000 mg/m<sup>3</sup>  
 Species: Mouse  
 Comments: Ethanol.

### Other information regarding health hazards

Eye damage or irritation other information	Based on available data, the classification criteria are not met.
Sensitisation	Not Sensitising.
Mutagenicity	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Aspiration hazard, comments	Not classified.

### Symptoms of exposure

In case of ingestion	May cause discomfort if swallowed.
In case of skin contact	Prolonged or repeated contact may cause irritation.
In case of inhalation	May cause irritation to the respiratory system.
In case of eye contact	May cause temporary eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic toxicity, fish	Value: 11200 mg/l Effect dose concentration : LC50 Test duration: 96 hour(s) Comments: Ethanol.
Plant toxicity	Value: 633 mg/kg Effect dose concentration : EC50 Comments: Ethanol.

### 12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is easily biodegradable.
Biodegradability	Value: > 80 % Method: OECD TG 301 Comments: Ethanol. Test period: 4 day(s)



### 12.3. Bioaccumulative potential

Bioaccumulation, comments	The product is not bioaccumulating.
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### 12.4. Mobility in soil

Mobility	The product is soluble in water.
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### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB substances.
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### 12.6. Other adverse effects

Additional ecological information	No information.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.
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Appropriate methods of disposal for the contaminated packaging	Flush with plenty of water to clean spillage area. The packaging must be empty (drop-free, when inverted). The packaging should be collected for reuse.
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## SECTION 14: Transport information

Dangerous goods	Yes
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### 14.1. UN number

ADR/RID/ADN	1170
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IMDG	1170
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ICAO/IATA	1170
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### 14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	ETHANOL SOLUTION
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ADR/RID/ADN	ETHANOL SOLUTION
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IMDG	ETHANOL SOLUTION
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ICAO/IATA	ETHANOL SOLUTION
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### 14.3. Transport hazard class(es)

ADR/RID/ADN	3
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Classification code ADR/RID/ADN	F1
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IMDG	3
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ICAO/IATA	3
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#### 14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

#### 14.5. Environmental hazards

IMDG	None.
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#### 14.6. Special precautions for user

Special safety precautions for user	Flammable.
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#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Transport in bulk (yes/no)	No
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#### Additional information

Hazard label ADR/RID/ADN	3
Hazard label IMDG	3
Hazard label ICAO/IATA	3

#### ADR/RID Other information

Tunnel restriction code	D/E
Transport category	2
Hazard No.	33
Other applicable information ADR/RID	33

#### IMDG Other information

EmS	F-E, S-D
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### SECTION 15: Regulatory information

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

Assessed restrictions	Not known.
Legislation and regulations	<p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.</p> <p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/</p>

93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## 15.2. Chemical safety assessment

Chemical safety assessment performed	Yes
Exposure scenarios for mixture	No
Exposure scenario comments	Not relevant.

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
CLP classification, comments	Ecological information on ingredients. Toxicological information on ingredients.
CLP classification, notes	Classification according to supplier. Physical and chemical properties: The classification is based on tested mixture.
Key literature references and sources for data	Raw materials information: 11.11.2019
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Version	1