

# Safety Data Sheet

Reg.: (EC) No 1907/2006 (REACH), (EU) No 453/2010, (EU) No 830/2015, (EU) No 542/2017, (EU) No 878/2020, (EC) No 1272/2008, (EC) No 790/2009, (EC) No 286/2011



Version: 1.0

Revision date: ---

Date of issue: 02/08/2024

## Fertilizer Dekastim turbo 18-18-0+38SO<sub>3</sub>+0,1Cu

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Commercial Product Name** : Fertilizer Dekastim turbo 18-18-0+38SO<sub>3</sub>+0,1Cu

**Unique Formula Identifier (UFI)** : QTS3-P09N-G005-DKUQ

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

**Use of the Substance/Mixture** : Fertilizer. For consumers and professional users.

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

**Company (Manufacturer/Distributor)** : HELLAGROLIP SA  
Pentelis 34A  
175 64, Palaio Faliro  
e-mail: [g.director@hellagrolip.com](mailto:g.director@hellagrolip.com)  
[www.hellagrolip.com](http://www.hellagrolip.com)

**Telephone** : +30 2510 317152 and +30 2130 037616

**Fax** : +30 210 9408198

#### 1.4 Emergency telephone number

In case of medical emergencies, please contact your local poison control center.  
Company's Telephone: +30 2510 317152 and +30 2130 037616 (08:30 to 16:30).

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) - CLP**

Aquatic Chronic 3                      H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements CLP

**Hazard pictograms:**

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**Signal word:**

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**Hazard Statements:**

H412                      Harmful to aquatic life with long lasting effects.

**Precautionary Statements:**

**General:**                      ---

**Prevention:**                      P273: Avoid release to the environment.

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Response: ---

Storage: ---

Disposal: P501: Dispose of contents/container to local/regional/national/international regulations.

Hazardous components which must be listed on the label:

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### 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Classified components according to EU Chemicals Legislation:

Chemical name	CAS-No.	Classification (1272/2008/EC)	Concentration [% w/w]
	EINECS No		
	Registration No		
Copper Sulphate	7758-98-7	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0,249 %
	231-847-6		
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### Further information

The substance does not meet the criteria for classification according to Regulation (EC)No. 1907/2006 as PBT or vPvB.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

: In case of accident or if you feel unwell, seek for medical advice immediately (show the label when possible).  
Take off contaminated clothing and shoes immediately.

#### If inhaled

: Avoid dust formation during use.  
Inhalation of dust may cause irritation of the respiratory system.  
In case of respiratory system irritation, consult a physician.

#### In case of skin contact

: After contact with skin, wash with plenty of water.  
Take off immediately all contaminated clothing and wash it before reuse.

#### In case of eye contact

: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids open.

#### If swallowed

: Typically no exposure pathway.

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If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and ask immediately for medical help.

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

Symptoms upon:

- **Inhalation:** None expected.
- **Skin contact:** None expected
- **Eye contact:** May cause eye irritation.
- **Ingestion:** Diarrhoea, Dizziness, Vomiting, Weakness

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

Provide symptomatic treatment.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media** : Not flammable. In case of fire use extinguishing media appropriate to surrounding materials.
- Unsuitable extinguishing media** : None known.

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

- Specific hazards during firefighting** : In case of a fire or decomposition involving various fertilizers, hazardous decomposition products will be formed, such as: irritating, corrosive and/or toxic gases. Exposure to decomposition products may cause serious damage to health.

### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for incidents with chemical substances.
- Further information** : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local authority requirements.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

See protective measures under point 7 and 8.  
Avoid inhalation of dust. Ensure sufficient ventilation especially in enclosed spaces.

### 6.2 Environmental precautions

Heavy spillage may cause adverse environmental impact in surface waters, such as eutrophication or contamination by nitrates. In case of contamination of rivers and lakes or drains, inform respective authorities.

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Create mounds with suitable materials e.g. sand, to prevent molten Magnesium Oxide from entering the drains.

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

During cleanup, you should wear appropriate PPE, to prevent any skin/eye contact and inhalation of dust. Avoid creating dust during clean-up. Do not use compressed air to clean up spills.

### 6.4 Reference to other sections

Refer to section: 7, 8, 11, 12 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** : Avoid eye and excessive skin contact. Use only with adequate ventilation.

**Advice on protection against fire and explosion** : Not applicable

**Dust explosion class** : Not applicable.

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

**Requirements for storage areas and containers** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area.

**Advice on common storage** : In principle there are no restrictions due to chemical incompatibility for the joint storage with any of the other storage classes.  
Keep away from food, drink and animal feedingstuffs.

**Storage Temperature** : Ambient temperature (5 - 30°C).

**Other data** : Not available.

### 7.3 Specific end use(s)

Fertilizer.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

The product does not contain significant amounts of work-related substances whose limits should be controlled.

Chemical name	EINECS <sup>(1)</sup>	CAS-No <sup>(2)</sup>	Note: <sup>(3)</sup>	WEL-TWA <sup>(4)</sup>		WEL-STEL <sup>(5)</sup>		Source
				ppm <sup>(6)</sup>	mg/m <sup>3</sup> <sup>(7)</sup>	ppm <sup>(6)</sup>	mg/m <sup>3</sup> <sup>(7)</sup>	
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<sup>(1)</sup> EINECS: European Inventory of Existing Chemical Substances

<sup>(2)</sup> CAS: Chemical Abstract Service Registry Number.

<sup>(3)</sup> The notation "skin" (D), implies the possibility of a significant absorption through the skin when in direct contact with the substance.

<sup>(4)</sup> WEL-TWA: Workplace Exposure Limit - Time-Weighted Average value of exposure over the course of an 8 hour work shift.

<sup>(5)</sup> WEL-STEL: Workplace Exposure Limit - Short-term exposure limit (15-minute reference period)

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<sup>(6)</sup> ppm: parts per million volume in air (ml/m<sup>3</sup>).

<sup>(7)</sup> mg/m<sup>3</sup>: measured at a temperature of 20 °C and atmospheric pressure (101,3 kPa).

### 8.2 Exposure controls

#### Appropriate engineering controls

Prevent generation of dust. Provide adequate ventilation in work and storage areas.

#### Personal protective equipment

- Respiratory protection : Special respiratory protection measures are not required when applied under normal or reasonably foreseeable conditions of use and in a well ventilated area. In case of inadequate ventilation and/or dust formation wear respiratory protection.
- Hand protection
- Material : Impervious and chemical resistant protective gloves (EN 374, EN 420) and gloves for protection from mechanical risks (EN 388).
- Glove thickness : ---
- Break through time : ---
- General remarks : Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
- Eye/face protection : In case of splash risk. wear safety glasses with side-shields conforming to EN166.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Recommended protection measures which should be taken into account, when handling chemicals:
- General practical hygiene measures.
  - Do not breathe vapour /cloud /gas /dust.
  - When using do not eat, drink or smoke.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with skin, eyes and clothing. Take off contaminated clothing and wash before reuse.

#### Environmental exposure controls

- General advice : Do not dispose into surface water or sanitary sewer system. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Prevent further leakage or spillage if possible without risk. If the product contaminates rivers and lakes, inform respective authorities.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance** : Solid

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<b>Colour</b>	: ---
<b>Odour</b>	: None
<b>Flash point</b>	: The product itself is not flammable
<b>Lower Flammable Limit</b>	: Not applicable (does not contain flammable components)
<b>Upper Flammable Limit</b>	: Not applicable (does not contain flammable components)
<b>Autoignition temperature</b>	: The product is not self-ignited
<b>Explosive properties</b>	: There is no risk of explosion of the product
<b>Lower explosive limit</b>	: Not applicable
<b>Upper explosive limit</b>	: Not applicable
<b>pH (20 °C)</b>	: 5 - 6
<b>Melting point / melting range (°C)</b>	: No data available
<b>Boiling point/boiling range (°C)</b>	: Not applicable
<b>Vapour pressure</b>	: Not applicable
<b>Density</b>	: No data available
<b>Bulk density</b>	: No data available
<b>Solubility in water</b>	: Partially soluble in water
<b>Solubility in other solvents</b>	: No data available
<b>Partition coefficient n-octanol/water:</b>	: No data available
<b>Viscosity, dynamic</b>	: Not applicable
<b>Viscosity, kinematic</b>	: Not applicable
<b>Oxidising properties</b>	: Not oxidizing

### 9.2 Other information

None known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

The material is stable under normal conditions of use and storage and will not self decompose.

### 10.3 Possibility of hazardous reactions

No hazardous reactions, if used for its intended purpose.

### 10.4 Conditions to avoid

May decompose when heated. Cross-contamination of the fertilizer with other chemicals must be avoided.

### 10.5 Incompatible materials

Materials to avoid: None known.

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### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products is not possible to be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Dangerous health implications

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits (see section 8), it may result in adverse effects on health depending on the means of exposure.

#### 11.1.1. Ingestion:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for ingestion (see section 3).

#### 11.1.2. Inhalation:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation (see section 3).

#### 11.1.3. Contact with the skin and the eyes:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for contact with the skin and the eyes (see section 3).

#### 11.1.4. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned (see section 3).

#### 11.1.5. Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects (see section 3).

#### 11.1.6. Specific target organ toxicity (STOT)-single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. (see section 3).

#### 11.1.7. Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified, as dangerous for inhalation (see section 3).

#### 11.1.8. Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect (see section 3).

Given the available data of the individual components

#### Acute toxicity (oral)

Copper Sulphate : LD50 (oral-rat): 480 mg/kg (OECD 402)

#### Acute toxicity (inhalant)

Copper Sulphate : No data available.

#### Acute toxicity (dermal):

Copper Sulphate : LD50 (dermal-rat): > 2.000 mg/kg (OECD 402).

#### Acute toxicity (other routes of administration)

Copper Sulphate : No data available.

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### Skin corrosion/irritation

#### Skin irritation

Copper Sulphate : Causes skin irritation

### Serious damage/eye irritation

Copper Sulphate : Causes eye irritation

### Respiratory or skin sensitization

Copper Sulphate : Does not cause any sensitization

### CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned (see section 3).

### STOT- single exposure

Copper Sulphate : Not classified

### STOT- repeated exposure

Copper Sulphate : Not classified

### Aspiration hazard

#### Aspiration toxicity

Copper Sulphate : There are no harmful effects or critical hazards

### Neurological effects

Copper Sulphate : There are no harmful effects or critical hazards

### Toxicology Assessment

#### Toxicology, Metabolism, Distribution

With proper handling the product does not cause any damage to health.

#### Acute effects

No data available.

### Further information

With proper handling the product does not cause any damage to health.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish

Copper Sulphate : No data available

#### Toxicity to daphnia and other aquatic invertebrates

Copper Sulphate : No data available

#### Toxicity to algae:

Copper Sulphate : No data available

### 12.2 Persistence and degradability

#### Biodegradability

: No data available.

### 12.3 Bioaccumulative potential

#### Bioaccumulation

: Low

### 12.4 Mobility in soil

#### Surface tension

: No data available



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### 12.5 Results of PBT and vPvB assessment

The product does not meet the criteria for classification as PBT or vPvB.

### 12.6 Other adverse effects

Additional ecological information

: Prevent surface and ground-water infiltration, as well as ground penetration.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Advice on disposal and packaging** : Disposal:  
According to National and European regulations. It should not be disposed of with household wastes. The appropriate waste code(s) should be assigned by the user, based on the product usage.

The following Waste Codes are only suggestions:

**Waste Code (EWC)** : EWC disposal code no. (unused product):  
06 10 02 wastes containing dangerous substances  
(M) = Mirror entry

**Disposal of uncleaned packaging (EWC)** : EWC disposal code no. (uncleaned packaging):  
15 01 10\*(M) packaging containing residues of or contaminated by dangerous substances  
(M) = Mirror entry  
Note: After rinsing with plenty of water, empty bags can be transported to licensed units / management organizations for recycling.

## SECTION 14: TRANSPORT INFORMATION

The product is not subject to international regulations governing the transport of dangerous goods (ADR/RID, IMDG, ICAO/IATA).

## SECTION 15: REGULATORY INFORMATION

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

**VOC (1999/13/EC)** : Not applicable.

**Seveso III - DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the control of major-accident hazards involving dangerous substances** : Not applicable.

**Regulation (EU) 2019/1148 on the marketing and use of explosives precursors** : Not applicable.

**Further information** : Fertilizer. For use by professional users and the general

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public.

### 15.2 Chemical safety assessment

The Chemical Safety Assessments of the mixture's components have been performed.

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life, with long lasting effects.

### Revised points:

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### Acronyms and abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road (2015)  
CAS No: Chemical Abstracts Service Number  
EmS: Emergency Schedules  
EINECS No: European Inventory of Existing Commercial Chemical Substances Number  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
IATA-DGR: International Air Transport Association's-Dangerous Goods Regulations (56<sup>th</sup> edition)  
ICAO-TI: International Civil Aviation Organization's-Technical Instructions  
IMDG Code: International Maritime Dangerous Goods Code (36<sup>th</sup> - 37<sup>th</sup> amendment)  
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

This Safety Data Sheet was elaborated on the basis of information provided by the manufacturer, as well as, suppliers of individual components and on the basis of data in publicly accessible databases.

All information provided herein is deemed reliable and is intended to ensure optimal protection during transport, handling and storage of our products.

However, the present should not be considered as a warranty or quality specification.

### Department issuing MSDS:

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175 64, Palaio Faliro, Attiki, Greece

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