

**SAFETY DATA SHEET**  
Acc. to Regulation (EC) No 1907/2006 (REACH)



**Trade Name: FULVITAL PLUS LIQUID**

Printing date 10/12/2019

Reviewed on 10/12/2018

## 1. IDENTIFICATION OF SUBSTANCE

**Product details:**

**Trade name:** FULVITAL PLUS LIQUID  
**Article number:** 212  
**Application of the substance / the preparation:** Organic Micronutrient Deficiency Corrector  
**Manufacturer/Supplier:**  
Humintech GmbH  
Am Pösenberg 9-13  
41517 Grevenbroich / Germany  
[www.humintech.com](http://www.humintech.com)  
[info@humintech.com](mailto:info@humintech.com)  
**Information:** see: Section 16 (Contact)  
**Emergency information:** see: Manufacturer/Supplier

## 2. HAZARDS IDENTIFICATION

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
Not classified as dangerous.

**Hazard designation:**  
n/a

**Information pertaining to particular dangers for man and environment:**  
n/a

## 3. COMPOSITION/ DATA ON COMPONENTS

**Mixture:** Liquid ligninsulfonic acid and micronutrients (Fe/ Zn/ Mn/ Cu)

	Ingredient name	EC No.	CAS No.
1	Lignosulfonic acid, salt of		8062-15-5
2	Copper (II) sulphate pentahydrate	231-847-6	7758-99-8
3	Manganese (II) sulphate monohydrate	232-089-9	10034-96-5
4	Zinc sulphate monohydrate	231-793-3	7446-19-7
5	Iron (II) sulphate heptahydrate	231-753-5	7720-78-7
6	Magnesium sulphate	231-298-2	7487-88-9

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#### **4. FIRST AID MEASURES**

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After skin contact:**  
Instantly wash with water and soap and rinse thoroughly.
- **After inhalation:**  
Supply fresh air. Seek medical treatment in case of complaints.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

#### **5. FIRE FIGHTING MEASURES**

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- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder, foam or water.
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Sulphur oxide, Carbon monoxide (CO)
- **Protective equipment:**  
Put on breathing apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

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- **Person-related safety precautions:**  
Avoid skin and eye contact.
- **Measures for environmental protection:**  
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/ collecting:**  
Collect mechanically with sawdust as binding material.

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## 7. HANDLING AND STORAGE

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- **Handling:**

The usual precautions at handling with chemicals are to be attended.

- **Storage:**

Protect against strong frost.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

- **Storage class:**

VbF class not applicable.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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- |                                |                   |
|--------------------------------|-------------------|
| • <b>Eye protection:</b>       | Safety glasses    |
| • <b>Hand protection:</b>      | Protective gloves |
| • <b>Breathing protection:</b> | Unnecessary       |
| • <b>Personal Protection:</b>  | Unnecessary       |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- |                                   |                        |
|-----------------------------------|------------------------|
| • <b>Form:</b>                    | aqueous solution       |
| • <b>Colour:</b>                  | Dark brown             |
| • <b>Odour:</b>                   | typical                |
| • <b>pH-value:</b>                | 4-5                    |
| • <b>Melting point:</b>           | n/a                    |
| • <b>Boiling point:</b>           | 100°C                  |
| • <b>Flash point:</b>             | n/a                    |
| • <b>Inflammability:</b>          | n/a                    |
| • <b>Danger of self-igniting:</b> | not self-igniting      |
| • <b>Danger of explosion:</b>     | not explosive          |
| • <b>vapour pressure:</b>         | n/a                    |
| • <b>Relative density:</b>        | 1,17 g/cm <sup>3</sup> |
| • <b>Solubility:</b>              | water-soluble          |
| • <b>Dry matter content:</b>      | 29 %                   |

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## 10. STABILITY AND REACTIVITY

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- **Conditions to be avoided:**  
No recommendations
- **Dangerous products of decomposition:**  
Non at usual handling.
- **Substances to be avoided:**  
None.

## 11. TOXICOLOGICAL INFORMATION

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- **Acute toxicity:**  
LD 50/ Oral/ Rat: mg/kg                      Not determined  
LC50/ Inhal./ Ratte: mg/l                      Not determined

## 12. ECOLOGICAL INFORMATION

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- **General notes:**  
Highly degradable.
- **Behavior and environmental fate:**  
Spontaneous coupling by biochemical reaction in soil.

## 13. DISPOSAL CONSIDERATIONS

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- **Recommendation:**  
Remove according to local authority recommendations, e.g. convey to a suitable incinerator.  
Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

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#### 14. TRANSPORT INFORMATION

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- Land transport ADR/ RID a GGVS/ GGVE
- ADR/ RID: is not a dangerous matter
- GGVS/ GGVE: is not a dangerous matter
- National Seetransport (AND/ ADR): is not a dangerous matter
- AND/ ADR: is not a dangerous matter

#### 15. REGULATORY INFORMATION

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- **Water hazard class:**  
Water hazard class 1 (self-rating): low hazardous to waters.

#### 16. OTHER INFORMATION

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This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:**  
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