



VitaFer sp. z o.o. sp. k.  
Al. Krakowska 19, 05-555 Tarczyn  
NIP:1231426805; KRS: 0000772883

**SAFETY DATA SHEET**  
**VitaFer Kombi – Suspension Foliar Fertilizer**

**SECTION 1 IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY**

1.1 Product identifier	<b>VitaFer Kombi</b>
1.2 Relevant identified uses	Fertilizer for fertilizing farm plants, vegetables and orchard plants
1.2 Uses advised against	other than the ones mentioned above
1.3 Details of the supplier	VITAFER Sp. z o.o. Sp.k. Aleja Krakowska 19, 05-555 Tarczyn office@vitafer.pl
Responsible for the Safety Data Sheet	112
1.4 Emergency telephone number	01-01-2020 (version 01)
Prepared on	

**SECTION 2 HAZARDS IDENTIFICATION**

**Classification of the mixture**

**2.1.1 Classification according to Regulation (EC) 1272/2008** (See SECTION 16 for full text of the H phrases)

Product not classified as dangerous.

**2.2 Label elements in compliance with Regulation (EC) 1272/2008**

N/A

**2.3 Other hazards**

“EC Fertilizer”

“Type C 2.11. A suspension fertilizer NK 20-15 with an addition of magnesium oxide (MgO) and with micronutrients: boron (B), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn)”.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**The mixture contains:** urea, potassium nitrate (substances not classified as dangerous)

**SECTION 4 FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General remarks** – Remove contaminated clothing and shoes and wash before using again.

**Inhalation** – Remove from the area of exposure to fresh air.

**Skin contact** – Remove contaminated clothing, wash skin with a lot of cold water. If skin irritation persists, consult a dermatologist.

**Eye contact** – Irrigate copiously with water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Avoid strong water jet due to risk of damage to cornea. If the irritation persists, seek medical help.

**Ingestion** – Do not give any medicines to the unconscious person. Seek medical attention and present the label of the product or the safety data sheet.

**4.2 Most important symptoms and effects, both acute and delayed:**

**Eyes:** no data available

**Skin:** no data available.

**Inhalation:** no data available

**Ingestion:** unknown

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

Hand the doctor the safety data sheet of the mixture. A decision on further treatment should be taken by a doctor after examining the person affected.

### SECTION 5 FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media:** the product is non-flammable. Use extinguishing media suited to the materials stored in the immediate vicinity.

**Extinguishing media not to be used:** not specified

#### 5.2 Special hazards arising from the mixture

During fire nitrogen and carbon oxide may be produced.

#### 5.3 Advice for fire-fighters

Do not stay in the danger zone without appropriate chemical protective clothing and a self-contained breathing apparatus.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition. Provide adequate ventilation. Use personal protective equipment mentioned in section 8.

#### 6.2 Environmental precautions

Do not allow large quantities of the substance enter the sewerage system and water reservoirs. Prevent further spreading.

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

The released product must be put in a waste container (use industrial vacuum cleaners or sprinkle with a sorbent). Dispose of selectively in accordance with the applicable regulations.

#### 6.4 Reference to other sections.

Section 8.

### SECTION 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contamination of eyes and skin. Follow the occupational health and safety regulations and the manufacturer's instructions and use protective equipment (see section 8).

Do not eat, drink or smoke in the places where the product is used, handled or transported.

Workers must wash hands and face before eating, drinking or smoking.

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

Store in the original, closed and appropriately marked containers. The warehouse should be locked and inaccessible for unauthorised persons. Avoid exposure to high temperatures and direct sunlight.

The appropriate range of storage temperature is +5°C to +30°C (the optimum temperature is 25°C). Store in a dry and well ventilated place. Secure the containers against physical damage.

Avoid contact with oxidisers.

#### 7.3 Specific end use(s)

No additional instructions.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Permissible national occupational exposure limits

N/A

Legal basis: The decree of the Minister of Labour and Social Policy of 29.11.2002 on maximum allowable concentrations and threshold limit values of agents with adverse health effects in workplace (Journal of Laws No. 217 item 1833).

#### DNEL values:

No data available

## PNEC values

No data available

## 8.2 Exposure controls

### Appropriate engineering controls

If the user generates dust, gas, vapour or mist, use process barriers, local exhaust vents or other technical safety devices that help maintain the level of exposure under the statutory limits.

### Individual protection measures:

- Eye and face protection – protective goggles with side protection in accordance with PN – EN 166
- Hand protection – protective gloves tested and chosen based on the standards PN-EN 374,
- Respiratory protection – AP filters required when vapours/mists are generated
- Skin protection – protective clothing
- Environmental exposure controls – do not allow the product to enter the sewerage system.

## 8.3 Environmental exposure controls

Before the product is used, assess the occupational risk and take appropriate preventive measures.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	Test method	
Appearance	Yellow suspension	Organoleptic
Odour	Typical	Organoleptic
Odour threshold	N/A	
pH of 1% solution in 20°C	6.0 – 7.5	Potentiometer
Melting/freezing point	No data available	
Boiling point and boiling range	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	N/A	
Upper/lower flammability limit	N/A	
Upper/lower explosive limit	N/A	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	1.38 kg/l	No data available
Water solubility	Soluble in water	
Partition coefficient n-octanol/water	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
Viscosity	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	

**9.2 Other information** none

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

Non-reactive while stored, used and applied under normal conditions.

### 10.2. Chemical stability

The product is stable under recommended use and storage conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Keep away from high temperature and direct sunlight. Avoid changes in temperature. Do not allow the temperature to drop below 5°C.

### 10.5. Incompatible materials No data available

None known.

### 10.6. Hazardous decomposition products

During fire or on heating it may produce toxic and caustic gases (carbon oxides, ammonia).

## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute toxicity:** no data on the mixture available  
**Skin irritation/corrosion:** no data on the mixture available  
**Eye irritation/damage:** no data on the mixture available  
**Respiratory or skin sensitisation:** no data on the mixture available  
**Mutagenicity:** no data on the mixture available  
**Carcinogenicity:** no data on the mixture available  
**Reproductive toxicity:** no data on the mixture available  
**Specific target organ toxicity – single exposure:** no data on the mixture available  
**Specific target organ toxicity – repeated exposure:** no data on the mixture available  
**Aspiration risk:** no data on the mixture available

## SECTION 12 ECOLOGICAL INFORMATION

**12.1 Toxicity** - no data on the mixture available  
**12.2. Persistence and degradability** – does not apply to inorganic substances  
**12.3 Bioaccumulative potential** - does not apply to inorganic substances  
**12.4 Mobility in soil** – no data on the mixture available.  
**12.5 Results of PBT and vPvB assessment** – no data on the mixture available.  
**12.6. Other adverse effects** – no data on the mixture available.

## SECTION 13 DISPOSAL CONSIDERATIONS

Do not drain into the sewerage system. Avoid contamination of surface and ground water.  
The regulations of the Waste Act of 14 December 2012 (Journal of Laws 2013, item 21) must be applied accordingly. The regulations of the act of 13 June 2013 on packaging and packaging waste management (Journal of Laws 2013, item 888) must be applied accordingly.

## SECTION 14 TRANSPORT INFORMATION

The product is not classified as hazardous in transport.

## SECTION 15 REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Special legal regulations referring to this mixture

Directive 96/82/EC and the decree of the Minister of Economy on the types and amount of dangerous substances whose presence in a facility make it a high risk facility or a facility with a high risk of a serious industrial emergency, dated 10 October 2013 (Journal of Laws 2013, item 1479).

**The mixture is not mentioned in an annex to this decree.**

#### EU regulations

1. 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. 793/93 and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EEC AND 2000/21/EC. (Revision of the Regulation L136/3 of 29-05-2007)
2. 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
3. Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
4. Regulation (EC) No. 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers

#### National regulations:

5. Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011, No. 63, item 322 as amended)
6. Act of 27 April 2011 – Environmental Protection Law - (uniform text, Journal of Laws 2013, No. 0, item 1232 as amended)
7. Decree of the Minister of Health, dated 20 April 2012, on the labelling of the packaging of dangerous substances and dangerous mixtures and some other mixtures (Journal of Laws 2012, No. 0, item 445 as amended)
8. Decree of the Minister of Health, dated 10 August 2012, on the criteria and method of the classification of chemical substances and their mixtures (Journal of Laws 2012, No. 0, item 1018 as amended)
9. Government order, dated 24 August 2004, on the list of works that the juveniles are not allowed to perform and the conditions in which they can perform those works (Journal of Laws 2004, No. 200, item 2047 as amended)
10. Government order, dated 10 September 1996, on the list of works that women are not allowed to perform (Journal of Laws 1996, No. 114, item 545 as amended)
11. Government announcement, dated 28 May 2013, on the amendments to the Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road ADR, concluded in Geneva on 30 September 1957, becoming effective (Journal of Laws 2013\_0\_815)
12. Act of 10 July 2007 on fertilizers and fertilization and its later amendments
13. Waste Act of 14 December 2012 (Journal of Laws 2012.21 as amended)

## 15.2 Chemical safety assessment

The manufacturer has not performed a chemical safety assessment of the mixture.

SECTION 16 OTHER INFORMATION
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Full text of H phrases and other abbreviations referring to Section 2 and 3

N/A

### Recommended training:

- On-the-job training
- Training on the hazards related to the mixture and the preventive measures in the occupational hazard assessment
- Training on actions to be taken in the event of a release of the substance

### Abbreviations and acronyms:

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

SVHC: Substance of Very High Concern

TLV-TWA: Threshold limit value - time-weighted average

TLV-STEL: Threshold limit value - short-time exposure limit

PBT: Persistent bioaccumulative toxic chemical

vPvB: very persistent and very bioaccumulative

NOEC: No observable effect concentration

### Other information

The information above has been prepared based on our current knowledge and describe the product in terms of environmental protection and safe use. The information is no guarantee of the product quality or a quality specification of the product and no complaints can be based on the information.

**List of amendments:** N/A