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# SAFETY DATA SHEET

Prepared in accordance with Regulation (EC) 2015/830

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

### 1.1. Product identifier

Trade name: **O-80** PFC 1(B)(II): LIQUID ORGANIC-MINERAL FERTILIZER

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

**Identified uses:** mineral-organic liquid fertilizer, improves the properties of soils for plant cultivation, plant growth stimulator, seed and seedling dressing, preparation accelerating the decomposition of crop residues and post-harvest residues.

**Uses advised against:** other than those specified above.

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

Company name: FITOVALOR Sp. z o.o.  
Address: Marcina Bylicy str. # 2 Postal code 32-300 Olkusz, Poland  
Phone: +48 515115586  
Email: info@fitovalor.pl

E-mail of the person responsible for the safety data sheet: info@fitovalor.pl

### 1.4. Emergency telephone number

National emergency number: 112

## SECTION 2 HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

### 2.2. Label elements

**Pictogram:**

Not applicable.

**Watchword:**

Not applicable.

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**Hazard statements:**

Not applicable.

**Precautionary statements:**

Not applicable.

**2.3. Other hazards**

No data available.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

Organic Carbon, humic acids, fulvic acids, amino acids, minerals, macro and micro elements.

**SECTION 4 FIRST AID MEASURES**

**4.1. Description of first aid measures**

**General Information:** Consult a physician if you feel unwell.

**Inhalation:** Remove victim to fresh air.

**Skin contact:** Wash the skin with plenty of running water and soap. If symptoms of irritation occur and persist, consult a physician and show this safety data sheet.

**Eye contact:** Rinse eyes to remove soiling. Consult a physician if eye irritation occurs.

**Ingestion:** Rinse mouth with water.

**Protection of first responders:** Do not take any action that would pose a risk to anyone unless you are properly trained. If it is suspected that vapours are still present the rescuer should wear an appropriate mask or isolation breathing apparatus.

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

No data available.

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

Treat symptomatically.

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## SECTION 5 FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media:** Fire extinguishers (powder, ABC, water).

**Unsuitable extinguishing media:** Strong jet of water - risk of fire spreading.

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

Non-flammable product. Under normal conditions of use, transport and storage, does not pose a fire hazard.

### 5.3. Information for fire-fighters

**Special protective equipment:**

Comply with applicable fire codes. Provide information on the location of hydrants and enable use.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions: See section 8 of the safety data sheet.

### 6.2. Environmental precautions

Contain the leak.

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

Wash up spill with a wet cloth. No special methods or materials provided for containment.

### 6.4. References to other sections

Also refer to sections 8 and 13 of the safety data sheet.

## SECTION 7 HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Take general precautions when working with chemicals and follow health and safety regulations.

Use the product only for its intended purpose and in accordance with the manufacturer's instructions. Ensure adequate ventilation.

Avoid contact with skin and eyes.

See section 8 of the safety data sheet for appropriate protective equipment.

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

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Store in a dry, cool and well-ventilated place in original, closed and properly labeled containers.  
 Protect containers from moisture and damage.

### 7.3. Specific end use(s)

See section 1.2 of the safety data sheet.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Not applicable.

### 8.2. Exposure controls

**Eye or face protection:** Use safety glasses (EN 166).

**Hand protection:** Use chemical-resistant protective gloves (EN 374).

**Skin protection:** Wear protective work clothing.

**Respiratory protection:** Not required under normal use conditions.

**Occupational hygiene:** Do not eat, drink or smoke in the work area. Wash hands thoroughly with soap and water after finishing work and before eating, smoking or using the toilet.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	: Muddy, brown-black in color
Fragrance	: Organic
Odour	threshold: No data available
	pH: 7,27
Melting point/freezing point	: Not applicable
Initial boiling point and boiling	range: No data available
Flash	point: Non-flammable
Upper/lower flammability limits or upper/lower	explosive limit : No data available
Vapour	pressure: No data available
Vapour	density: No data available
Solubility	: Insoluble
Partition coefficient	n-octanol/water: No data available
	Auto-ignition temperature : No data available
	Evaporation rate : No data available
Decomposition	Flammability: Non-flammable
	temperature: No data available

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Viscosity	: No data available	
	Explosive properties	: No data available
	Oxidizing properties	: No data available

## 9.2. Other information

Declared content of nutrients % (m/m):  
 Total nitrogen (N) content 5.2% (m/m)  
 Ammonium nitrogen (N) content 0.6% (m/m)  
 Amide nitrogen (N) content 4.6% (m/m)  
 Total phosphorus content, expressed as phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) 1.8% (m/m)  
 Content of water-soluble phosphorus, calculated as phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>) 1.8% (m/m)  
 Total potassium content, expressed as potassium oxide (K<sub>2</sub>O) 3.3% (m/m)  
 Content of water-soluble potassium, calculated as potassium oxide (K<sub>2</sub>O) 3.3% (m/m)  
 Total calcium content, calculated as calcium oxide (CaO) 0.17% (m/m)  
 Total iron (Fe) content from sulphate 0.65% (m/m)  
 Total manganese (Mn) content from sulphate 1.23%  
 Zinc content (Zn) from sulfate 0.56% (m/m)  
 Organic carbon content (C<sub>org</sub>) 36.1% (m/m)  
 Dry matter content 55.4%  
 Ingredients: Coal Tar CAS No. 65996-89-6 (CMC 1: Virgin Raw Materials and Mixtures), Molasses EC No. 932-161-6 (CMC 6: By-products of the Food Industry), Urea CAS No. 57-13-6 (CMC 1: Primary raw materials and mixtures)

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is not reactive under normal conditions of use and storage.

### 10.2. Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

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No data available.

#### **10.4. Conditions to avoid**

High temperatures.

#### **10.5. Incompatible materials**

No data available.

#### **10.6. Hazardous decomposition products**

No data available.

### **SECTION 11 TOXICOLOGICAL INFORMATION**

#### **11.1. Information on toxicological effects**

**Acute toxicity:**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:**

Based on available data, the classification criteria are not met.

**Mutagenic effects on germ cells:**

Based on available data, the classification criteria are not met.

**Carcinogenicity:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity:**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure:**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure:**

Based on available data, the classification criteria are not met.

**Aspiration hazard:**

Based on available data, the classification criteria are not met.

### **SECTION 12 ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available. BCF has not been determined.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No test data available on the ecotoxicological properties of the product.

<b>SECTION 13</b>	<b>WASTE TREATMENT</b>
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**Waste disposal methods**

**Recommendations for the mixture:** Do not empty into drains. Do not allow contamination of surface or ground water. Waste should be recycled or disposed of in approved incinerators or waste treatment/disposal facilities in accordance with applicable regulations.

**Recommendations concerning used packaging:** Recycling / disposal of packaging waste should be carried out in accordance with applicable regulations.

NOTE: Only completely emptied and cleaned packaging may be recycled! Please use a certified company.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

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Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for users**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

The Act of 17 January 2018. On chemical substances and their mixtures (Journal of Laws 2018 pos. 143) - uniform text OJ. 2019 item 1225.

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentrations and intensities of harmful factors for health in the working environment (Journal of Laws of 2018, item 1286, as amended)

Regulation of the Minister of Health of 20 April 2012 on the labeling of packaging of hazardous substances and mixtures and some mixtures (Journal of Laws 2012, item 445) - consolidated text Journal of Laws 2015, item 450.

Regulation (EC) 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 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 (Official Journal of the European Union L 396 of 30 December 2006 and subsequent amendments).

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 Directive 67/548/EEC

and 1999/45/EC and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L No. 353 of 31 December 2008 as amended).

Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classification of chemical substances and their mixtures (Journal of Laws 2012 item 1018) - uniform text Journal of Laws 2015 item 208.



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Regulation of the Minister of Health of 2 February 2011 on tests and measurements of harmful factors in the workplace (Journal of Laws 2011 No. 33 item 166).

Regulation of the Minister of Economy of 21 December 2005 on the basic requirements for personal protection equipment (Dz.U. of 2005 No. 259, item 2173).

Ordinance of the Minister of Labour and Social Policy dated 26 September 1997 on general regulations of labour safety and hygiene (consolidated text Journal of Laws dated 2003. No. 169, item. 1650; of 2007. No. 49, item 330; 2008. No. 108, item 690; of 2011. No. 173, item 1034).

Announcement of the Minister of Health of 9 September 2016 on the announcement of the consolidated text of the Regulation of the Minister of Health on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws pos. 1488, 2016).

Announcement of the Speaker of the Sejm of the Republic of Poland of 6 March 2018 on the announcement of the uniform text of the Fire Protection Act (Journal of Laws, item 620, 2018).

Announcement of the Speaker of the Sejm of the Republic of Poland of 16 April 2020 on the announcement of the consolidated text of the Act on Waste (Journal of Laws 2020, item 797).

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (Journal of Laws 1975 No. 35 item 189).

Government Statement of 26 July 2005 on the entry into force of the amendments to Annexes A and B of the European Agreement concerning the international carriage of non-hazardous goods by road (ADR) done at Geneva on 30 September 1957. (Journal of Laws No. 178, item 1481, 2005 as amended).

## 15.2. Chemical safety assessment

No data available.

### SECTION 16 OTHER

### INFORMATION

The information contained in the safety data sheet is intended to help in the safe use of the product. The user of the product is obliged to observe all applicable standards and regulations and to create suitable conditions for the safe use of the product.

Methods used to classify the mixture: not classified.

#### Abbreviations:

BCF - Bioconcentration Factor - The ratio of the concentration of a substance in an organism to its concentration in water at equilibrium.

vPvB - Very Persistent and Very Bioaccumulative. PBT - Persistent, bioaccumulative and toxic.