



PRODUCT SAFETY DATA SHEET

(in accordance with Regulation (EC) No. 1907/2006 (REACH) as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008 (CLP))

HUMAC® Agro

Date of Issue: 16.06.2026 | Version: 3.0 (Replaces Version 2 from 15.08.2018)

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

1.1 Product identifier

- **Name:** HUMAC® Agro
- **Product code:** H6

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

- **Identified uses:** Natural soil conditioner based on humic acids. Classified as a fertiliser under HS Code 3101 based on composition and intended for agricultural use.
- **Uses advised against:** Data not available.

1.3 Details of the supplier of the safety data sheet

- **Company:** HUMAC s.r.o.
- **Address:** Werferova 1, 040 11 Košice, Slovakia
- **Telephone:** +421 (0) 918 565 186, +421 (0) 910 749 403
- **Email:** info@humac.sk

1.4 Emergency telephone number

- **Company emergency number:** +421 (0) 918 565 186 (Availability: Mon - Fri 8.00-17.00)
- **National Toxicological Information Centre (Slovakia):** +421 2 5477 4166 (24/7)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- **According to Regulation (EC) No 1272/2008 (CLP):** The product is not classified as hazardous.

2.2 Label elements

- **According to Regulation (EC) No 1272/2008 (CLP):** No hazardous components are required to be listed on the label.

2.3 Other hazards

- The substance does not meet the criteria for PBT or vPvB.
- **Safety warnings:** Handle with care. Avoid dust inhalation and contact with eyes.



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SECTION 3: Composition/information on ingredients

3.1 Substances

- **Component name:** Leonardite (Activated Leonardite)
- **Description:** Natural substance with a high content of humic acids, 100% natural substance, activated without chemical additives. Product derived from Leonardite (natural mineral source).
- **REACH Note:** The substance is exempted from REACH registration in accordance with Annex V, paragraph 7 (naturally occurring mineral, not chemically modified).

SECTION 4: First aid measures

4.1 Description of first aid measures

- **General notes:** No personal protective equipment is needed for first aid responders.
- **Following inhalation:** Move the person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops, or if discomfort, coughing, or other symptoms persist.
- **Following eye contact:** Rinse with water, forcing the eyelids open for a min. of 10-15 minutes. Remove contact lenses first if any.
- **Following skin contact:** Is not dangerous, just rinse with water.

4.2 Most important symptoms and effects, both acute and delayed

- The substance has no negative effects on people, animals, or the environment. If inhaled: May cause mechanical irritation and coughing. If ingested: Is not toxic.

4.3 Indication of any immediate medical attention and special treatment needed

- At the occurrence of health problems or in case of doubts, consult a doctor and provide them with data from this product safety data sheet.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media:** It is recommended to extinguish with water, sand, or clay.
- **Unsuitable extinguishing media:** Pressure fire extinguishers of all types, except for water pressure extinguishers.

5.2 Special hazards arising from the substance or mixture

- Slightly combustible material, has properties similar to coal when burning. Combustion emits carbon dioxide (CO₂).

5.3 Advice for firefighters

- Do not enter the fire area without adequate protective clothing and a gas mask.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid contact with eyes. Wear protective gloves, glasses, and a respirator. The material does not evaporate but produces dust during handling.

6.2 Environmental precautions

- Not necessary.

6.3 Methods and material for containment and cleaning up

- The spilled material is cleaned by mechanical means, then cleaned with water with added detergent (pH 7-8). Ensure that workers wear appropriate personal protective equipment and prevent dust from spreading.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Handle with care. Avoid dust inhalation and contact with eyes. Wear protective equipment, mainly glasses for eye protection and a respirator in dusty environments. Do not drink, eat, or smoke during work. After work and before eating, wash hands with soap and water. Protect against open flame and keep the packaging closed after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place away from the sun. Store only in the original packaging in dry, covered, and ventilated areas. Prevent contact with oxidizing agents, direct sunlight, and sources of heat. Store at temperatures ranging from **-10 °C** to **+40 °C**. Keep away from children.
- **Recommended packaging:** High-density polyethylene (HDPE). **Unsuitable packaging:** Textile bags.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Undetermined.

8.2 Exposure controls

- **Appropriate engineering controls:** Measures to reduce the generation of dust and to avoid dust propagating in the environment, such as dedusting, exhaust ventilation, and dry clean-up methods which do not cause airborne dispersion.
- **Individual protection measures:** Wear protective glasses to prevent contact with eyes. When potentially exposed to dust levels above exposure limits, use appropriate respiratory protection. After working, personnel should wash or shower.
- **Environmental exposure controls:** No special emission control measures are necessary.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Physical state/Appearance:** Solid, black-brown powder, granules, or pellets (8 mm).
- **Odour:** Natural, neutral odour
- **Odour threshold:** No odour threshold
- **pH (at 20 °C):** 6.5
- **Melting point/freezing point:** Not applicable
- **Initial boiling point and boiling range:** Not applicable
- **Flash point (FIT):** 535 ± 17 °C
- **Auto-ignition temperature (SIT):** 500 ± 10 °C
- **Flammability (solid, gas):** Combustible material
- **Relative density (at 20 °C):** 1.25 g/cm³ (Apparent density: 1.25 g/cm³)
- **Solubility:** In water: insoluble (forms turbidity) | In alkalis: soluble | In alcohol: partially soluble
- **Decomposition temperature:** > 100 °C
- **Explosive properties:** Can be explosive only if mixed with another substance containing nitrogen
- **Oxidising properties:** Not applicable as it does not have oxidising properties

SECTION 10: Stability and reactivity

10.1 Reactivity: Data not available.

10.2 Chemical stability: When storage and handling instructions are met, the product is stable up to **75 °C**.

10.3 Possibility of hazardous reactions: Data not available.

10.4 Conditions to avoid: Humid conditions during storage may cause lump formation and loss of product quality.

10.5 Incompatible materials: Strong oxidizing agents, substances containing more than 15% nitrogen, metal powders.

10.6 Hazardous decomposition products: None at standard storage conditions. Combustion generates CO₂.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- **Acute toxicity:** LD50 (oral, rat): 10 480 mg/kg - very low to no toxicity.
- **Skin corrosion/irritation:** No irritant reactions on skin are known.
- **STOT-repeated exposure:** None, it is intended for long-term and preventive use. There is no danger to living organisms at correct dosing, contact toxicity is zero.
- **Carcinogenicity / Reproductive toxicity:** Not carcinogenic. No reproductive toxicity.



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SECTION 12: Ecological information

12.1 Toxicity: The product is not hazardous to the environment.

12.2 Persistence and degradability: Not easily decomposable.

12.3 Mobility in soil: Bioactive soil component – forms a bioactive component of humus in the soil.

12.4 Results of PBT and vPvB assessment: Data not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- No special measures are required as it is an organic compound. Disposal must be carried out in accordance with applicable national and regional legislation (e.g., Act No. 79/2015 Coll. on Waste in Slovakia).

SECTION 14: Transport information

- HUMAC® Agro is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID); no classification is required.
- Not classified as dangerous goods.
- No special precautions are needed.

SECTION 15: Regulatory information

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

- Regulation (EC) No. 1907/2006 (REACH) as amended.
- Regulation (EC) No. 1272/2008 (CLP) as amended.
- Act No. 67/2010 Coll. on conditions for placing chemical substances and mixtures on the market (Chemical Act), as amended.
- Act No. 124/2006 Coll. on occupational safety and health protection.
- Act No. 79/2015 Coll. on waste.
- **Product Declaration:** Classified as a fertiliser under HS Code 3101 based on composition and intended for agricultural use. Not an animal by-product. Origin: Slovakia, European Union.

15.2 Chemical safety assessment

- No chemical safety assessment has been carried out.



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SECTION 16: Other information

16.1 Training advice

- Familiarize staff with the suitable method of use, mandatory protective equipment, first aid, and the prohibited handling and storage of the substance.

16.2 Disclaimer

- The data provided is based on our current state of knowledge and understanding and is not a guarantee of the product properties. It in no way exempts the user from the need to know the laws within the field of their activity. The user is solely responsible for ensuring adherence to safety measures when using the product.

16.3 Key sources of data

- The product safety data sheet has been prepared based on current legislation and data taken from the manufacturer's product specifications.