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1.1.	Product ID	
Product name:	NATUR BIOKAL 01	
Formulation:	Aqueous solution of plant origin	
Active substances:	Herbs, biohumus aqueous extract, essential oils, eucalyptus oil, mineral salts	
CAS-number:	-	
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
Use:	Plant conditioning preparation	
1.3.	Details of the supplier of the safety data sheet	
Manufacturer and distributor:	Biokál International Kft. 7570 Barcs Széchenyi köz 2. HUNGARY Phone: + 381 (11) 3072-301 Fax: + 381 (11) 3072-310	
Email address of the person responsible for the safety data sheet:	<i>info@naturbiokal.hu</i>	
1.4.	Emergency phone number	
Emergency phone number:	Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ) Nagyvárad tér 2. 1450 BUDAPEST HUNGARY Phone: +36 1 476 6464 24 hours free phone number: +36 80 20 11 99	
2. HAZARD CLASSIFICATION		
2.1.	Classification of the chemical	
Classification is 1272/2008 (EU) according to the regulation	Not classified	
2.2.	Labeling elements	
Labeling is 1272/2008 (EK) according to the regulation		
Indicator of danger (GHS) pictograms:	Not assigned	
Warning		

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Premonitory H- sentences	Not assigned
Precautionary statement P- sentences	<p>P102: Keep out of reach of children.</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P362 + P364 Take off contaminated clothing and wash before reuse.</p> <p>P501 Dispose of contents/container to: in accordance with international standards.</p>
Additional information	EUH401- To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Keep away from food, feedstuffs and other consumables. (The H full text of sentences see in the 16. point.)

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance hazardous ingredients

The product is a mixture, not a substance.

3.2. Mixtures and hazardous ingredients

Chemical name	CAS-number EC- number registration number	Classification (1272/2008)	Composition
Aqueous extract of herbs		Not classified	57 %
Biohumus extract		Not classified	38 %
Essential oil, medicinal water, minerals, trace elements		Not classified	5 %

The H full text of sentences see in the 16. point).

4. FIRST AID

4.1. FIRST AID

Inhalation:	Take the affected person to fresh air, leave the contaminated area. Rest the injured person.
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Skin contact:	Take off immediately all contaminated clothing, and wash the affected parts of the body thoroughly with water. Call a doctor if skin irritation persists! Contaminated clothing should be washed before use.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
Ingestion:	Rinse the injured mouth with water. Do not induce vomiting. Seek medical advice immediately and show the package leaflet, the label or the safety data sheet to the doctor.

4.2.	Most important symptoms and effects, both acute and delayed
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Most important symptoms and effects, (both acute and delayed)	No information available.
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4.3.	Recommendation for immediate medical attention and special treatment
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There is no specific antidote. Use symptomatic monitoring.

5. FIRE - FIGHTING MEASURES

National Fire Protection Regulations (54/2014. (XII.5.) BM in accordance with this regulation.
Fire hazard class: E= non-flammable

5.1.	Extinguisher
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Use extinguishing measures that are appropriate to local circumstances and the surrounding fire.

5.2.	Extinguishing material which cannot be used for safety reasons
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No

5.3.	Special hazards arising from the substance or mixture
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No data available

5.4.	Proposal for firefighters:
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Enclosed protective clothing, compressed air respirator.

6. ACCIDENTAL RELEASE MEASURES

6.1.	Personal precautions, protective equipment and emergency procedures:
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Empty and seal the area, provide ventilation. The use of protective equipment is recommended.

6.2.	Environmental precautions:
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Do not allow product to reach ground water, water course or sewage system.

It is forbidden to use it in biosphere reserves and highly protected areas! In nature protection areas, in national parks and landscape protection areas it can only be issued with the prior consent of the competent conservation manager.

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In order to protect aquatic organisms and to ensure water quality, the preparation must not be stored or applied within 50 m of stagnant or rivers.

6.3. Territorial delimitation and methods, materials for decontamination:

Empty and seal the spilled material with a barrier. collect the substance with non-flammable, absorbent material (e.g sand, soil, diatomite, vermiculite), place in a container and dispose of it properly. Inform respective authorities in case of spillage into water course or sewage system.

6.4. Reference to other paragraphs

See sections 7 and 8 for protective measures. References to waste management aspects can be found in point 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

No special technical precautions required. No special handling advice required. Avoid contact with skin and eyes. Do not eat, drink or smoke when working with the product. Ventilation should be provided.

7.2. Conditions for safe storage, including any incompatibilities:

In original, closed packaging, in a cool, covered, frost-free, dry place, protected from sunlight. Keep out of reach of children. Keep away from food, feedstuffs and other consumables.

7.3. Specific end use:

Agricultural use. See product label for proper and safe use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Components with occupational exposure limits

The name of the component:

	AK merit (mg/m ³)	AK merit (mg/m ³)	AK merit(mg/m ³)
1. Aqueous extract of herbs	not defined	not defined	not defined
2. Aqueous extract of biohumus	not defined	not defined	not defined
3. Essential oil, medicinal water, minerals, trace elements	not defined	not defined	not defined

Other: no data available

8.2. Exposure controls

Handle in accordance with good industrial hygiene and safety practice and wash hands before and after use. Do not eat, drink or smoke when using it.

8.3. Special precautions, protective equipment

Eye / face protection: Tightly fitting safety goggles (EN 166)

Skin protection: Lightweight protective clothing, protective hat, protective footwear

Hand protection: Protective gloves

Respiratory protection: Not required for intended use

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Thermal hazards: No data available

8.4. Environmental exposure controls

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Consistence:	liquid
Colour:	light brown
Smell:	characteristic
Odor threshold:	No data available
pH-merit:	8,18 ±0,5
Melting point / range:	No data available
Boiling point	No data available
Flash point:	No data available
Evaporation rate	No data available
Flammability (solid, gas):	Not applicable
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapor pressure:	No data available
Relative vapor density:	No data available
Density:	1,0 ±0,1 kg/dm ³
Solubility in water - in other solvents:	dissolves No data available
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
Kinematic viscosity:	No data available
Oxidizing properties:	No data available
Explosive properties:	not explosive

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9.2.	Other information
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Specific density (water=1, (20 °C) no data available

Other information: Dry matter content (m/m%) at least 0,8; As content (m/v%) at most 10,0; Cd content (m/v%) at most 2,0; Co content (m/v%) at most 50,0; Cr content (m/v%) at most 100,0; Cu content (m/v%) at most 100,0; Hg content (m/v%) at most 0,1; Ni content (m/v%) at most 50,0; Pb content (m/v%) at most 100,0; SE content (m/v%) at most 5,0; Fekal coliform (db/ml) at most 10,0; Fekal streptococcus (db/ml) at most 10,0; Pseudomonas aeruginosa (db/ml) at most 10,0; Salmonella sp. (db/2x10 ml) at most 0,0; Human parazita intestinal worm egg (db/100 ml) at most 0,0.

10. STABILITY AND REACTIVITY

10.1.	Reactivity:	No dangerous reaction known under normal conditions
10.2.	Chemical stability:	The product is stable when stored and handled as directed. No decomposition under normal conditions.
10.3.	Possible dangerous reactions:	No hazardous reaction if stored and handled as prescribed / indicated
10.4.	Conditions to avoid:	under normal conditions the substance is stable
10.5.	Incompatible materials:	no data available
10.6.	Hazardous decomposition products:	no data available

11. TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects
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Acute toxicity

Inhaled	The substance is not considered to be toxic to humans under good agricultural practice, with appropriate application technology and intended use. No information available. In animals reported.
Ingested	The substance is not considered to be toxic to humans under good agricultural practice, with appropriate application technology and intended use. No information available. In animals reported.
In contact with skin	The substance is not considered to be toxic to humans under good agricultural practice, with appropriate application technology and intended use. No information available. In animals reported.
Skin irritation / corrosion	No information available
Serious eye irritation / damage:	No information available
Respiratory or skin sensitization::	No information available
Germ cell mutagenicity:	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available

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Specific target organ toxicity - single or repeated exposure (STOT)	No information available
Specific target organ toxicity (STOT) repeated exposure	No information available
Aspiration hazard	No information available
Delayed and immediate effects and also chronic effects from short and long term exposure	No information available
Other relevant toxicity information	No information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity	In order to protect aquatic organisms and to ensure water quality, the preparation must not be stored or discharged within 50 m of stagnant or rivers. No information available
Land toxicity	It is forbidden to use it in biosphere reserves and highly protected areas! It can only be released in nature reserves, national parks and landscape protection areas with the prior consent of the competent nature conservation manager.
Wastewater treatment conduct	No information available

12.2. Persistence and degradability

In water – No information available
 In the air - No information available
 In soils and sediments - No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. PBT and vPvB- evaluation results

Free of polychlorinated hydrocarbons and heavy metals

12.6. Other adverse effects

The toxic element content of the preparation does not exceed the prescribed limit. The substance is not considered to be toxic to humans with good agricultural practice, appropriate use technology and intended use.

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13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	
Product:	Do not contaminate stagnant or running water with chemicals or used packaging. Do not empty into drains. Where possible, recycling takes precedence over waste disposal and incineration. If recycling is not practicable, dispose of in accordance with local regulations.	
Contaminated packaging:	Any remaining contents should be emptied. Tanks should be flushed three times. Do not allow product to reach ground water, water course or sewage system. Empty containers should be taken to an approved waste disposal facility for recycling or disposal.	
Waste identification codes	Packing 15 01 02 plastic packaging waste Residue:20 01 99 other fractions not specified	

14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN-number:	Not classified. Not covered by the regulations.
14.2	Appropriate shipping name:	-
14.3	Transport hazard class:	-
14.4	Packing group:	-
14.5	Environmental hazards:	-

Transport by sea (IMDG)

14.1	UN-number:	Not classified.
14.2	Appropriate shipping name:	-
14.3	Transport hazard class:	-
14.4	Packing group:	-
14.5	Environmental hazards:	-

Transport by air (IATA)

14.1	UN-number:	Not classified.
14.2	Appropriate shipping name:	-
14.3	Transport hazard class:	-
14.4	Packing group:	-
14.5	Environmental hazards:	-
14.6	Special precautions for user:	No data
14.7	Transport in bulk according to A MARPOL 73/78 II. and the IBC code	No data

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15. REGULATORY INFORMATION

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

There is no restriction according to REACH XVII . Does not include REACH on the substance marked list

15.2 Chemical safety assessment

No chemical safety assessment has been performed for the mixture.

15.3 Saveso category

219/2011.(X.20.) Government decree

15.4 Warehouse class

12 Warehouse class: Non-combustible liquids

15.5 WGK- German water hazard class

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15.6 Other relevant national regulations

Waste identifiers: 72/2013.(VIII.27.) VM Regulation on the list of wastes.

Road transport department:2013. CX. law as well as the On the International Carriage of Dangerous Goods by Road Europe Agreement "A" and "B" On the publication of its Annex and certain aspects of its domestic application 61/2013. (X.17.) NFM.Rail transport: Regulation 2013. CIX. law a Convention International Carriage by Rail (COTIF) amending accepted in Vilnius, Dated 1999. June 3rd Protocol

The promulgation of attachment, and the domestic application in some of its questions and the domestic announcing its application 62/2013. (X.17.) NFM regulation.

Inland waterway transport: 2013. CXI. law May 26. 2000 Genf., Dangers product International Inland waterway transport European for an agreement (ADN) attached Regulations promulgation and domestic application.

16. Other informations

16.1 Abbreviations in the data sheet

REACH Registration, Evaluation, Authorization and restriction of Chemicals
 CSR Chemical Safety Report
 OEL Occupational Exposure Limit
 DNEL Derived No Effect Level
 PNEC Predicted No Effect Concentration
 LD50 Lethal Dose 50%
 LC50 Lethal Concentration 50%
 EC50 Effective Concentration 50%
 NOEL No Observable Effect Level
 NOEC No Observable Effect Concentration
 NOAEC No Observable Adverse Effect Concentration
 NOAEL No Observable Adverse Effect Level
 STP Sewage Treatment Plant
 PBT Persistent, Bioaccumulative, and Toxic
 vPvB Very persistent and very bioaccumulative

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16.2	Sources and references of the data used to compile the data sheet
Biokial 02 plant conditioning preparation for marketing authorization and use (2019)	
16.3	H-sentens
Not assigned	
16.4	Technical advisory services
Biokál International Kft. 7570 Barcs Széchenyi köz 2. HUNGARY Phone.: + 381 (11) 3072-301 Fax: + 381 (11) 3072-310	
16.5	Other information
The material has a shelf life of 2 years from production without deterioration. The product should not contain germination, growth inhibitors, seeds of quarantine seeds and their vegetative parts, human-, animal- and plant harmful to health, infectious macro- and microorganisms, toxic, contaminating and radioactive substances.	
16.6	General Information
<p>The information is apply for only this specific product and meets the enterprise specification.</p> <p>In the case of preparations and mixtures, it must be ensured that no new hazard exists. Information in the data sheet is existing at the time of printing the safety data sheet based on our best knowledge. However, some data are under review. Users should be aware of the potential for additional hazards if the product is used for purposes other than those for which it was recommended. This data sheet should only be used and reproduced for prevention and safety purposes. References to laws, regulations and practical rules and documents are not complete.</p> <p>It is the responsibility of the person receiving the product to review all official documents related to the use and handling of the product. It is also the responsibility of the product operators to pass on all information contained in this safety data sheet and necessary for the safety of work, health and the environment to all subsequent persons who comes into contact with the product in any way (use, storage, cleaning of containers, other procedures.</p>	
16.7	License number
Marketing license number: 6300/1003-1/2019	
16.8	SP sentences
SP1- Do not contaminate water with plant protection products or their packaging.	