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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 1 / 10 |
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| 1.1. | Product ID | |
| Product name: | NATUR BIOKAL 02 | |
| Formulation: | Aqueous solution of plant origin | |
| Active substances: | Herbs, biohumus aqueous extract, essential oils, eucalyptus oil, mineral salts, aqueous extract of wood ash | |
| CAS-number: | - | |
| 1.2. | Relevant identified uses of the substance or mixture and uses advised against | |
| Use: | Plant conditioning preparation | |
| 1.3. | Relevant identified uses of the substance or mixture and uses advised against | |
| 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 Telefon: +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 | |

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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 2 / 10 |
|--|--|--|

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| Warning | |
| 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 | 45 % |
| Biohumus extract | | Not classified | 40 % |
| wood ash | | Not classified | 10 % |
| Essential oil, medicinal water, minerals, trace elements | | Not classified | 5 % |

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

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|--|--|--|
| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 3 / 10 |
|--|--|--|

4. FIRST AID

4.1. FIRST AID

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| Inhalation: | Take the affected person to fresh air, leave the contaminated area. Rest the injured person. |
| 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. |
|---|---------------------------|

4.3. Recommendation for immediate medical attention and special treatment

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

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

5.2. Extinguishing material which cannot be used for safety reasons

No

5.3. Special hazards arising from the substance or mixture

No data available

5.4. Suggestion for firefighters:

Enclosed protective clothing, compressed air respirator

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Empty and seal the area, provide ventilation. The use of protective equipment is recommended.

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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 4 / 10 |
|--|--|--|

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| 6.2. | Environmental precautions: |
|-------------|-----------------------------------|

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.

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.

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| 6.3. | Territorial delimitation and methods, materials for decontamination: |
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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.

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| 6.4. | Reference to other paragraphs |
|-------------|--------------------------------------|

See sections 7 and 8 for protective measures. Refer to section 13 for waste management considerations.

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| 7. HANDLING AND STORAGE | |
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| 7.1. | Precautions for safe handling |
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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.

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| 7.2. | Conditions for safe storage, including any incompatibilities: |
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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.

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| 7.3. | Specific end use: |
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Agricultural use. See product label for proper and safe use.

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| 8. EXPOSURE CONTROLS / PERSONAL PROTECTION | |
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| 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

| | |
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| 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.

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| 8.3. | Special precautions, protective equipment |
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Eye / face protection: Tightly fitting safety goggles (EN 166)

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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 5 / 10 |
|--|--|--|

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

Hand protection: Protective gloves

Respiratory protection: Not required for intended use

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: | 8,45 ±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 |

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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 6 / 10 |
|--|--|--|

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

Other information: Dry matter content (m/m%) at least 0,8; Organic matter content (m/m%) at least 37,2; N content (m/v%) at least 2,14; 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; Fekál 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

| | | |
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| 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

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|--------------|---|
| 11.1. | Information on toxicological effects |
|--------------|---|

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 |

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|--|--|--|
| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 7 / 10 |
|--|--|--|

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| Reproductive toxicity | No information available |
| 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

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|------------------------------|--|
| 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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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 8 / 10 |
|--|--|--|

13. DISPOSAL CONSIDERATIONS

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| 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 |

| | | |
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| 14.7 | Transport in bulk according to A MARPOL 73/78 II. and the IBC code | No data |
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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 9 / 10 |
|--|--|--|

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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 |
| - | |
| 15.6 | Other relevant national regulations |
| <p>Waste identifiers: 72/2013.(VIII.27.) VM Regulation on the list of wastes.</p> <p>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</p> <p>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.</p> <p>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.</p> | |
| 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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| | Safety Data Sheet 1907/2006/EK, 1272/2008/EK and 2015/830/EU According to the directive | Creation date: 06th.March.2020. Date printed: 06th.March.2020. Examination number: 1 Page: 10 / 10 |
|--|--|---|

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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. | |