

SAFETY DATA SHEET



Trade name: VOYAGRO™

Date: 9/29/2017 Version: 3.1

SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Commercial name of the product: VOYAGRO™ (Commercial code COLCC04001)
- 1.2 Relevant identified uses of the mixture and uses advised against**
Relevant identified uses:
The product is intended for professional use as fertilizer.
Uses advised against:
The product must be used only for preparations used in agriculture.
- 1.3 Details of the supplier of the safety data sheet**
Supplier:
SICIT 2000 S.p.A. (manufacturer) Via Arzignano 80 I-36072 Chiampo (VI)
Phone +39 0444 450946 Fax +39 0444 677180
Guarantor:
Winfield Solutions, LLC, PO Box 64589, St. Paul, MN 55164-0589
- 1.4 Emergency telephone number**
CHEMTREC (Chemical emergency, spills) 1-800-424-9300
Non-Emergency number: (M-F 8AM-5P CST) 1-855-494-6343
Medical Emergency Telephone Number: (24 HOURS) 1-877-424-7452

SECTION 2. HAZARD IDENTIFICATION

- 2.1 Classification of the mixture according to Regulation 29 CFR 1910.1200 (OSHA HazCom 2012):**
Not classified. Not hazardous mixture.
- 2.2 Label elements:**
No hazard indications.
- 2.3 Other hazards:**
Adverse physicochemical effects and adverse health effects:
None.
Adverse environmental effects:
None.
Other adverse effects:
None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
Non applicable.

3.2 Mixtures:

Substance name	Identifiers	Content (w/w)
Aminoacids and peptides mixture	CAS No. 9015-54-7	31 – 38%
Potassium salts	-	26 – 35%

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General notes

The reported instructions must be followed. Have container or label available.

After inhalation:

If inhaled, move person from danger area and provide fresh air and seek medical advice.

If not breathing give artificial respiration.

After skin contact:

Wash with water and if irritation occurs contact a physician.

After eye contact:

Rinse immediately for 15 minutes with copious quantities of clean water keeping the eyelids open in order to assure an adequate rinsing and seek medical advice.

After swallowing:

Rinse out the mouth with copious quantity of water and seek medical advice.

Never give anything by mouth to an unconscious person.

Self-protection of the first aider:

Follow good working practice. No remarkable particular indication.

4.2 Most important symptoms and effects, both acute and delayed

No remarkable particular symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

No data.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Appropriate extinguishing media:

Take into account the materials present in its vicinity. In the case of fire due to nearby materials, water, foam, dry chemicals or carbon dioxide can be used. Evaluate the compatibility with any other substance present where the fire is located. Use the adequate extinguishing media on the basis of the specific situation.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the mixture

In case of fire due to nearby materials, the product could release toxic gases (sulfur dioxide, nitrogen oxides, carbon monoxide, carbon dioxide) and pungent and stifling smokes.

5.3 Advice for firefighters

General information

Cool the containers with water. Coordinate extinguishing measures taking into account local and environment circumstances.

Equipment

Wear equipment provided with fire-fighting protection devices.

Use respiratory protection equipment that supplies air from an independent source (auto-respirator), suitable protective gloves, suitable protective clothing and fire-fighter boots.

5.4 Other information

Avoid flushing the water used for the extinguishing into surface-water/drains. If this occurs, notify competent authorities. Contain and collect water used to extinguish in accordance with legislation in force.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Follow reasonable security precautions using gloves, goggles and suitable protective clothing and practice in accordance to good hygiene and manufacturing procedures taking precautionary measures against the formation of aerosol/inhalable dust and refer to internal emergency management procedures if applicable. Provide adequate ventilation. See section 8.

6.1.2 For emergency responders

Follow reasonable security precautions using gloves, goggles and suitable protective clothing and practice in accordance to good hygiene and manufacturing procedures taking precautionary measures against the formation of aerosol/inhalable dust and refer to internal emergency management procedures if applicable. Provide adequate ventilation. See section 8.

6.2 Environment precautionary measures

Collect the product for the re-use as much as possible and limit the pouring area; do not introduce the product and waste into sewage and surface water and collect in suitable containers and dispose according to law prescriptions. If a spill occurs, notify competent authorities. Avoid contaminating other plants, foods and beverages.

6.3 Methods and material for containment and cleaning up

Wash with water and collect in suitable containers and dispose according to law prescriptions.

Recovery: Contain spillage, pick up with absorbent non-combustible material (eg sand, earth, diatomaceous earth, vermiculite) and transfer to suitable container for disposal in accordance with local and federal regulations.

Decontamination/cleaning: Wash the affected area at the spill with water, collect the water used in suitable containers and dispose of in accordance with the provisions of the law (Instruments/equipment/personal protective equipment must be decontaminated properly in an isolated area).

Disposal of the collected materials: Dispose of in accordance with local and federal legislation in force.

Other information: The product and the materials containing them, may cause slippery surfaces.

6.4 Reference to other sections: Further information on exposure controls/personal protection equipment and further disposal considerations are reported in sections 7, 8 and 13 of this safety data sheet.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

The normal safety precautions for handling chemicals should always be observed.

Keep precautionary measures against the forming of inhalable aerosols/dust.

Do not contaminate water, food or feed by storage or disposal.

Personal protection measures:

Follow reasonable safety precautions and practice according to good industrial personal hygiene and good occupational practice using suitable protective gloves, safety glasses and clothing. Take precautionary measures against the forming of inhalable aerosols. See section 8.

Firefighting precautionary measures:

On the basis of current knowledge, the handling of the product doesn't present hazards if the normal measures for preventive fire protection of good working practices are applied. Work in clean and ventilated areas.

Measures to prevent aerosol and dust generation:

Use the product according to good manufacturing procedures.

Measures for environment protection:

Use the product following the suggested precautions and procedures.

General occupational hygiene recommendations:

Do not eat, drink and smoke in work areas.

Wash hands after use. Remove clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any compatibilities

The storage area, the tank features, the equipment and the operating procedures must comply with the rules of legislation in force.

Store the product in clean and suitable sealed containers and in suitable places in order to maintain the original characteristics of the product. Store the product far from ignition sources. Store the product in fresh and ventilated areas.

Technical Measures for storage: Take the necessary measures to avoid accidental discharge of products into drains and waterways in the event of ruptured containers or transfer systems malfunction.

Storage conditions:

Recommended: Store the product in suitable, closed and clean containers in order to maintain the original characteristics of the product. Keep the product in containers properly labeled.

Conditions to be avoided: Store away from open flames, hot surfaces and sources of ignition. Protect the product from direct sunlight. Store product away from incompatible materials.

Incompatible products:

The product is not compatible with strong oxidizing agents.

In the case of the mixing with other products, the instructions relative to the most noxious product must be followed. This product must be used according to the allowed methods, periods and uses only in agriculture; other uses are dangerous. Who uses the product is responsible for the possible damages deriving from the inappropriate use of the product.

Package:

Packing materials recommended: Store the product in the original container.

Packing materials contraindicated: Information not available.

Storage stability:

Storage temperature: According to the knowledge acquired the product is stable if kept properly under normal storage conditions.

7.3 Specific end use(s)

No available data referred to particular uses. Uses other than those indicated in this safety data sheet are not recommended.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values: No ACGIH or OSHA exposure limits.

Biological limit values: Data not available.

8.2 Exposure controls

8.2.1. Appropriate engineering controls:

The premises where the product is stored /manipulated must be adequately ventilated, cool and dry.

The use of the substance as fertilizer must follow reasonable safety precautions and follow good personal hygiene and good working practice rules using appropriate personal protective equipment. Avoid exposure to splashes and/or splashing.

8.2.2 Personal protective equipment:

Eye/face protection: protective goggles depending on working situation.

Hand protection: work gloves; PVC, neoprene, nitrile or equivalent. For the appropriate choice evaluate permeation, degradation, drilling time in relation to the specific work activity which determines the wear.

Skin protection: work clothes for professional use according to general good industrial practice.

Respiratory protection: wear a mask with filter

Thermal hazards:

No specific information available.

Hygiene measures:

Use clean personal protective equipment kept in good condition. Wash hands before breaks and after work.

Protective measures:

Select the protective equipment according to good industrial practice.

8.2.3. Environmental exposure controls:

Prevent the uncontrolled release into the environment.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Color/physical state:	amber coloured liquid
Odour:	characteristic
Odor threshold	not determined
pH relative to 10% w/w solution:	6.5-7.5
melting point/freezing point:	not determined
boiling point and range:	not determined
Flashpoint:	not determined
Evaporation rate:	not determined
Flammability; upper/lower flammability:	not determined
Explosive limits:	not determined
Vapor pressure/density:	not determined
Relative density:	not determined
Solubility in water (20°C in g/l):	total
Partition coefficient:	not determined
n-octanol/water:	not determined
auto ignition temperature:	not determined
decomposition temperature:	not determined
viscosity:	not determined
Organic Nitrogen content from aminoacids and peptides:	4.0 % w/w
Potassium content(as K ₂ O):	16.0 % w/w

9.2 Other information:

Available on request.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

The product doesn't present hazards due to its reactivity.

10.2 Chemical stability:

The product is stable in the normal storage conditions.

10.3 Possibility of hazardous reactions:

No particular situations must be remarked.

10.4 Conditions to avoid:

Avoid thermal shocks for the possibility to cause crystallization and avoid storing at temperature >30° C and < 4 °C for the difficult handling due to increased viscosity.

With the passing of time, a slight sediment may be formed without prejudicing the quality of the product.

10.5 Incompatible materials:

Strong oxidizing agents due to the possibility to realize exothermic reactions.

10.6 Hazardous decomposition products:

None in the normal storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Data referred to mixture are not available. The product is a mixture constituted by an aqueous solution of aminoacids, peptides and potassium salts.

The toxicological information relative to the substances present in the mixture is reported herewith.

Aminoacids and peptides mixture:

On the basis of the obtained results in performed toxicological tests on protein hydrolyzates, the product is not hazardous, not toxic, not oral noxious, not dermal noxious, not irritating for eyes and skin. Sensitizing effects are not pointed out.

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Studies relative to genetic and reproduction toxicity were not performed but considering that amino acids and peptides are ubiquitous and essential for life of human beings and of natural origins, particular effects can be excluded..

Potassium salts:

According to the information at disposal, the contained Potassium salts are not hazardous.

SECTION 12. ECOLOGICAL INFORMATION

Data referred to mixture are not available. The following information is relative to the contained substances and to considerations of use conditions.

12.1 Toxicity

According to ingredients, the product is not dangerous for the environment.

The following information is relative to the contained substances and to considerations of use conditions.

Aminoacids and peptides mixture:

Data relative to toxicity obtained by performed tests on aquatic and/or terrestrial organisms are not at disposal. Considering the intrinsic characteristic of naturalness of the substances constituting the protein hydrolyzates and its peculiarities connected to their use in agriculture, negative effects on environment are only due to the uncontrolled dispersion in the environment.

Potassium salts:

Avoid the uncontrolled dispersion in the environment. Follow the suggested dosages and instructions.

12.2 Persistence and degradability

Composition of the product and use modalities make substances promptly usable by plants. Avoid the uncontrolled dispersion in the environment and follow the suggested dosages and instructions. The information relative to the single ingredients is herewith reported.

Aminoacids and peptides mixture:

The product is biodegradable in aerobic conditions. The components aminoacids and peptides deriving from natural proteins, are metabolizable by living being present in the environment. The biotic degradation produces more simple metabolites that are involved in the biochemical processes of the living cells and consequently the product is completely biodegradable.

Potassium salts:

According to OECD criteria Potassium salts are biodegradable.

12.3 Bioaccumulative potential

Composition of the product and use modalities make substances promptly usable by plants. Avoid the uncontrolled dispersion in the environment and follow the suggested dosages.

Aminoacids and peptides mixture:

The degradation of protein hydrolyzates in soil produces aminoacids, re-usable by living beings in the protein synthesis and consequently metabolizable. They persist in the environment for a very short time without any tendency to bioaccumulation.

Potassium salts:

No potential for bioaccumulation.

12.4 Mobility in soil

Data referred to mixture are not available. The following information is relative to the contained substances.

Aminoacids and peptides mixture:

The degradation of protein hydrolyzates in soil produces aminoacids, reusable in protein synthesis and so promptly metabolize. The product if present in copious quantities can pollute ground and surface water, it may cause temporarily alterations in the point of dispersion. It is necessary to prevent the dispersion of the concentrated product into ground and surface waters.

Potassium salts:

No available information.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

There are not negative effects on environment.

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SECTION 13. DISPOSAL CONSIDERATIONS

The product is classified not hazardous according to the information at disposal based on ingredients. The disposal of the product and the packaging must comply with the local and federal legislation in force.

SECTION 14. TRANSPORT INFORMATION

The product must be transported according to federal, European and international regulations not for hazardous substances.

- 14.1 **UN number:** Not applicable.
- 14.2 **UN proper shipping name:** Not applicable.
- 14.3 **Transport hazard class:** Not applicable.
- 14.4 **Packing group:** Not applicable.
- 14.5 **Environmental hazards:** Not applicable.
- 14.6 **Special precautions for users:** Not subjected to particular regulations.
- 14.7 **Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:**
Transport in bulk is not performed.

SECTION 15. REGULATORY INFORMATION

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
The components in this product are listed on TSCA inventory.
The components in this product are not California Prop. 65 listed.
Regulation 1907/2006/EC (REACH)
Regulation 1272/2008/EC (CLP) and subsequent amendments and supplements
Regulation 453/2010/EU
Regulation 830/2015/EU
D.Lgs 81/2008 (consolidated text on the protection of health and safety in the workplace) and subsequent amendments and Directive 2009/161/EU
D.Lgs. 152/2006(Environmental Rules) and subsequent amendments
Regulation 1357/2014/EU
Decision 2014/955/EU
- 15.2 **Chemical safety assessment**
Not available.

SECTION 16. OTHER INFORMATION

Revisions

- Safety sheet dated 3/04/15: first edition.
- Safety sheet rev 2.0 dated 7/13/16: revision sections 1, 2, 3, 6, 8, 15 and 16.
- Safety data sheet version 3.0 dated 6/01/17: general revision.
- Safety data sheet version 3.1 dated 9/26/17: revision according to 29 CFR 1910.1200

Acronyms and abbreviations

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- CAS: Chemical Abstract Service
- CLP: Classification, Labelling and Packaging
- EC: European Community
- EEC: European Economic Community
- ECHA: European Chemicals Agency
- EPA: Environment Protection Agency
- EU: European Union
- IBC: International code for the construction and equipment of ships carrying dangerous chemicals in bulk

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MARPOL: International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, bioaccumulative and toxic
REACH: Registration Evaluation Authorization and Restriction of Chemicals
UN: United Nations
vPvB: Very persistent very bioaccumulative

Bibliographical references and main data sources

Toxicological reports relative to SICIT 2000 S.p.A. products, Biolab, Vimodrone (MI), Italy
Valutazione della Biodegradabilità Aerobica, Biolab, Vimodrone (MI), Italy, June 12, 2008
Safety data sheet relative to ingredients.
Exemption of hydrolysed proteins from registration under the REACH Regulation, Joint Position Paper, Centro Reach S.r.l., Milan, Italy, September 2012
ECHA web site.

Classification and procedure used to derive the classification for the substance according to Regulation 29 CFR 1910.1200 (OSHA HazCom 2012):

Not classified on basis of test data and information at disposal.

Extended text of hazard statements reported in section 2 and 3

No hazard statements are reported.

Guidance on training courses

Workers who use this product must have received adequate training to good industrial practice.

Other information

The statements submitted in this safety data sheet are based on our current knowledge and experience, as accurate and complete as possible, but they are given in good faith and for information only. The information reported in this safety sheet is intended to give you advice about the safe handling of the product, for storage, processing, transport and disposal.

The information can not be transferred to other products. In the case of mixing the product with other products or in the case of further processing, the information reported in this safety data sheet is not necessarily valid for the new made-up material. The user must ensure that the information is appropriate and complete in the case of particular uses.

This product should be stored, handled and used in accordance with good hygiene practice and in accordance with legal regulations.

The data given here do not signify any warranty with regard to particular properties.

This safety data sheet replaces all previous versions/information.

This product is not hazardous and a safety data sheet is legally not required under 29 CFR 1910.1200 (OSHA HazCom 2012) reference but the communication of information is necessary to enable appropriate risk management according to Article 32 of REACH Regulation. The form to communicate safety information by safety data sheet is broadly known and for this reason the safety information is communicated using this format.