



FILE NO.: Nucleus Complete
Revision date: May 2, 2017
Creation date: November 06, 2014

1 Identification

Product identifier

Trade name: Nucleus Complete

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

Application of the substance / the mixture

Microbial-based liquid formula for use in agriculture providing nutrient absorption enhancement and biological nitrogen fixation.

Details of the supplier of the safety data sheet

Distributed By:

Branch Creek Organics, LLC™

ADDRESS:

PO Box 523
Harleysville, PA 19438

TELEPHONE:

888-408-5433

Information department: Product Safety Department.

Emergency telephone number: +52 642-425-52-30 Ext 114/119, +47 48 95 95 20 (Norway)

2 Hazard(s) identification

Classification of the substance or mixture

This product is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Label elements

Labeling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.



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Classification system:
NFPA and HMIS ratings (scale 0 – 4)



Health = 0
Fire = 1
Reactivity = 0

Other Hazards
Results of PBT and VPvB assessment
PBT: Not applicable
vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Mixture
Description: Live non-pathogenic soil microorganisms in an inert carrier.
Dangerous components: Void

4 First aid measures

Description of first aid measures

General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor.
After eye contact: Check for and remove contact lenses. Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most important symptoms and effects, both acute and delayed:
No further relevant information available.

Information for doctor: Treat symptomatically and supportively.

Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

5 Firefighting measures

Extinguishing media
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:
No further relevant information available.

Advice for firefighters

Protective equipment:

Wear fully protective suit. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.



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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Environmental precautions: Dilute with plenty of water.

Methods and material for containment and cleaning up:

Use absorbent material, then wash area with soapy water.

Disinfect spill area with clean water to which household bleach is added at a rate of 100 mL per 20 liters (one half cup per five gallons).

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling:

Prevent formation of aerosols.

Ensure good ventilation/exhaustion in the workplace.

Do not dilute or add any other substance except as specified in Branch Creek Organics product use instructions.

Information about fire and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Further information about storage conditions:

Protect from frost.

Protect from heat and direct sunlight.

Store in a cool dry place between the temperatures of 2°C / 35.6°F and 48°C / 118.4°F away from direct sunlight.

The product will freeze at -10°C / 14°F.

Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see Section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls

Personal protective equipment:

Select PPE appropriate for the operations taking place taking into account the product properties.



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General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid close or long-term contact with the skin.

Avoid contact with the eyes.

Do not inhale gases/fumes/aerosols.

Do not eat, drink, smoke, or sniff while working.

Breathing equipment: Not required.

Protection of hands:

Wear impervious gloves that provide comprehensive protection, e.g. PVC or rubber.

Eye protection: None required, safety glasses if desired.

Body protection: Protective work clothing. Body protection must be chosen depending on product properties, activity and possible exposure.

9 Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance

Form:	Fluid
Color:	Brown
Odor:	Mild
Odor threshold:	Not determined
pH value:	3.5-4.5

Change in condition

Melting point/melting range:	-10 °C (14 °F)
Boiling point/boiling range:	100 °C (212 °F)

Flash point: Cannot support combustion

Flammability: (solid, gaseous): Not applicable

Ignition temperature:

Decomposition temperature: Not determined

Self-igniting: Product is not self-igniting

Danger of explosion: Product does not present an explosion hazard

Explosion limits

Lower:	Not determined
Upper:	Not determined

Vapor pressure at 20°C (68 °F): Not determined

Density at 20°C (68 °F): 1.0-1.2 g/cm³ (8.35-10.01 lbs/gal)

Relative density: Not determined

Vapor density: Not determined

Evaporation rate: Not determined

Solubility in / miscibility with water: Dispersible

Partition coefficient (n-octanol/water): Not determined



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Viscosity	
Dynamic:	Not determined
Kinematic:	Not determined
Solvent content:	
Organic solvents:	0.00%
VOC (EC):	0.00%
Other information:	No further relevant information available.

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition/conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products:

Organic matter under decomposition/combustion may produce:

- Carbon monoxide and carbon dioxide.
- Sulfur oxides (SO_x).
- Nitrogen oxides (NO_x).

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect

- On the skin: No irritating effect.
- On the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

- The product is not subject to classification according to internally approved calculation methods for preparations:
- When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Carcinogenic categories

- IARC (International Agency for Research on Cancer)
None of the ingredients are listed.
- NTP (National Toxicology Program)
None of the ingredients are listed.
- OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.



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12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: Easily biodegradable.

Bioaccumulative potential: Product is not expected to bioaccumulate.

Mobility in soil: No further relevant information is available.

Additional ecological information

General notes: Generally not hazardous to water.

Results of PBT and vPvB assessment

- PBT: Not applicable
- vPvB: Not applicable

Other adverse effects: No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation

Recommended Hierarchy of Controls:

- Minimize waste.
- Reuse if not contaminated.
- Recycle, if appropriate, or
- Safe disposal (if all else fails).

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state or international legislation.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

UN-Number

DOT, ADR, ADN, IMDG, IATA: Void

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA: Void

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA: Void

Packing group

DOT, ADR, IMDG, IATA: Void

Environmental hazards

Marine pollutant: No

Special precautions for user: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.



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Transport/additional information: Not dangerous according to the above specifications.
UN "Model Regulation":

15 Regulatory information

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

-SARA

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

Product related hazard information:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship. The information contained herein is. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor / manufacturer assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Vendor / manufacturer assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.