

Safety Data Sheet

Date of issue: 07/18/2019 Version: 2.0

SECTION 1: Identification

Identification

Product form : Mixture

Trade name : Cell-Tech® peat nitrogen-fixing inoculant for peanut

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

Use of the substance/mixture : Bradyrhizobium Inoculant

Details of the supplier of the safety data sheet

Novozvmes BioAa 3101 West Custer Ave Milwaukee, WI 53209 - USA

Information Telephone Number : 1-888-744-5662

Available 24 hours a day 7 days a week from April 1st to June 15th, otherwise available from 8:00am

to 4:30pm CST, Monday to Friday.

Emergency telephone number

: 1-800-424-9300 (Chemtrec) 24 hours every day Emergency number

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Comb. Dust May form combustible dust concentrations in air

2.2. **Label elements**

GHS-US labelling

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : May form combustible dust concentrations in air

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. **Substance**

Not applicable

3.2. **Mixture**

Components

Bradyrhizobium sp. (Arachis) : < 1% w/w : 5-6% Graphite

This mixture does not contain any substances to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.

SECTION 4: First aid measures

First-aid measures after inhalation

First-aid measures after skin contact

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

: Allow breathing of fresh air. Allow the victim to rest. Encourage coughing. In all cases of doubt,

or when symptoms persist, seek medical advice.

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Obtain medical attention if pain, blinking

or redness persists.

First-aid measures after ingestion : Rinse mouth. Give water to drink if victim completely conscious/alert. Do not induce vomiting

unless directed to do so by medical personnel. Obtain emergency medical attention.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: This product contains beneficial microorganisms. Novozymes exclusively uses non-pathogenic beneficial microorganisms that are considered to be non-allergenic, non-irritating and nonsensitizing when used as directed. Exposure to very high levels of airborne microbial spores may result in very rare respiratory impairments or cause an allergic reaction in sensitized individuals. Not expected to present a significant hazard under anticipated conditions of normal

Symptoms/injuries after inhalation

: Possible respiratory damage following repeated or prolonged inhalation.
: May cause skin irritation.
: May cause eye irritation.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact

Symptoms/injuries after ingestion

: Small amounts swallowed incidental to industrial handling are not likely to cause injury. On ingestion in large quantities: May cause stomach pain or discomfort.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard

: Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition

source.

Reactivity

: Thermal decomposition generates : Carbon monoxide. Carbon dioxide. hydrocarbons.

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific methods

Caution, burning may continue inside bag after surface is out. Break bag to separate pile to assure that the fire is extinguished. Take care to keep dusting to a minimum.

SECTION 6 : Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

 Use vacuum equipment designed specifically for handling combustible dust. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
 Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure adequate ventilation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin, eyes and clothing. Avoid breathing dust.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from food, drink and animal feeding stuffs. Keep only in the original container in a

cool, well ventilated place away from: Direct sunlight, Extremely high or low temperatures, Heat

sources. Keep container closed when not in use.

Incompatible materials : Acids. Bases. Reducing agents. oxidizing agents. Disinfectants, fungicides, and/or biocides

may inactivate.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Peat (RR-01126-7)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (respirable mass) 5 mg/m³ (total mass)
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³ (respirable mass)
		5 mg/m³ (total mass)

Graphite (7782-42-5)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (all forms except graphite fibers-respirable fraction)
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (synthetic-total dust) 5 mg/m³ (synthetic-respirable fraction)

8.2. Exposure controls

Colour

Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Personal protective equipment : In case of dust production: protective goggles. Gloves. Protective clothing. Insufficient

ventilation: wear respiratory protection. Avoid all unnecessary exposure.



: Dark brown







Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, approved respiratory protection

equipment is recommended.

Other information : Do not eat, drink or smoke during use.

SECTION 9 : Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Dark brown powder.

Odour Slight earthy odour Odour threshold : No data available

pH : 6.5 - 7.3

: No data available Melting point Freezing point : No data available Boiling point Not applicable Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available : No data available **Explosive limits** Explosive properties No data available Oxidising properties : No data available : Not applicable Vapour pressure

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Relative density : 0.6

Relative vapour density at 20 °C : Not applicable : Water: Not soluble Solubility Log Pow : No data available : No data available Auto-ignition temperature Decomposition temperature No data available Viscosity : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur

10.4. Conditions to avoid

Heat sources. Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Acids. Bases. Reducing agents. oxidizing agents. Disinfectants, fungicides, and/or biocides may inactivate.

10.6. Hazardous decomposition products

Thermal decomposition generates : hydrocarbons. Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Not classified

(Based on available data, the classification criteria are not met)

pH: 6.5 - 7.3

Serious eye damage/irritation : Not classified

(Based on available data, the classification criteria are not met)

pH: 6.5 - 7.3

Respiratory or skin sensitisation : Not classified

(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified

(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified

(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified

(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified

(Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated

exposure)

: Not classified

(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified

(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : Possible respiratory damage following repeated or prolonged inhalation.

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Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : Small amounts swallowed incidental to industrial handling are not likely to cause injury. On

ingestion in large quantities: May cause stomach pain or discomfort.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Cell-Tech® Peat Peanut	
Persistence and degradability	Not established

12.3. Bioaccumulative potential

Cell-Tech® Peat Peanut	
Bioaccumulative potential	Not established

12.4. Mobility in soil

Other information

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available
Effect on the global warming : No additional information available

SECTION 13 : Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations

: Avoid release to the environment

Ecology - waste materials : Avoid release to the environment

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

National regulations

Cell-Tech® Peat Peanut

This material is considered hazardous according to the criteria of the US OSHA Hazard Communication Standard (29 CFR 1910.1200)

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15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). ATE - acute toxicity estimate. CAS - Chemical Abstracts Service. GHS - Globally Harmonised System. HCS -Hazard Communication Standard. OSHA - Occupational Safety and Health Administration. PEL- Permissible Exposure Level. STEL- Short-Term Exposure Limit. TWA- Time Weighted Average.

Other information : None

Full text of H-statements:

Comb. Dust	Combustible Dust
H232	May form combustible dust concentrations in air

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with

some release of energy, but not violently.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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