

# Cell-Tech<sup>®</sup> Peat Soybean

## MONSANTO Company - Safety Data Sheet

according to the revised Workplace Hazardous Materials Information System (WHMIS) Regulations SOR/2015-17

Date of issue: 09-MAR-2016 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Cell-Tech<sup>®</sup> Peat Soybean

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : *Bradyrhizobium* Inoculant

#### 1.3. Details of the supplier of the safety data sheet

Monsanto Canada, 900 - One Research Road, Winnipeg, MB, R3T 6E3

Telephone: 204-985-1000 or 800-667-4944 Fax: 204-488-9599

E-mail: safety.datasheet@monsanto.com

#### 1.4. Emergency telephone number

Emergency number : FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT  
Call CANUTEC – Day or Night: 613-996-6666 (collect calls accepted) or MONSANTO:  
314-694-4000 (collect calls accepted).  
FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

### SECTION 2: Hazard(s) identification

#### 2.1. 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

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

This mixture contains 29.4% of ingredients with unknown acute toxicity.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Active ingredients:

Pure culture of *Bradyrhizobium japonicum* 29.4% w/w

This mixture does not contain any substances to be mentioned according to the criteria of Parts 7 & 8 of WHMIS Regulations SOR/2015-17.

### SECTION 4: First aid measures

#### 4.1. 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).  
First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest. Encourage coughing. In all cases of doubt, or when symptoms persist, seek medical advice.  
First-aid measures after skin contact : 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. Get medical advice/attention.

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

- Symptoms/injuries : 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 use.
- Symptoms/injuries after inhalation : Possible respiratory damage following repeated or prolonged inhalation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : 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.

### 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. Avoid static electricity discharges.
- Reactivity : Thermal decomposition generates : Carbon monoxide. Carbon dioxide. hydrocarbons. Fume.

### 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 : On land, sweep or shovel into suitable containers. Use vacuum equipment designed specifically for handling combustible dust. 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 : Provide adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Take precautionary measures against static discharge. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Hygiene measures : Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practices.

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### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, Heat sources, Extremely high or low temperatures. Keep container closed when not in use. Keep away from food, drink and animal feeding stuffs.
- Incompatible materials : Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides may inactivate.
- Storage temperature : < 20 °C (68°F)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Peat (RR-01126-7)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (respirable mass; 5mg/m <sup>3</sup> total mass)
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#### Quartz (14808-60-7)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
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### 8.2. Exposure controls

- 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 : Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Avoid all unnecessary exposure.



- 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.
- Colour : Dark brown
- Odour : Earthy odour
- Odour threshold : No data available
- pH : 6.5 - 7.3
- Melting point : Not applicable
- Freezing point : Not applicable
- Boiling point : Not applicable
- Flash point : Not applicable
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : No data available
- Explosive limits : Not applicable
- Explosive properties : No data available
- Oxidising properties : No data available
- Vapour pressure : Not applicable
- Relative density : 0.6
- Relative vapour density at 20 °C : Not applicable
- Solubility : Water: Not soluble
- Log Pow : No data available

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Auto-ignition temperature	: No data available
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

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

### 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 : Carbon monoxide. Carbon dioxide. hydrocarbons. Fume.

## 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)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)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)
Potential Adverse human health effects and symptoms	: 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	: 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

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Persistence and degradability	Not established.
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#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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#### 12.4. Mobility in soil

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

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

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. National regulations

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This material is considered hazardous according to the criteria of criteria of Parts 7 & 8 of WHMIS Regulations SOR/2015-17

### SECTION 16: Other information

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). CAS - Chemical Abstracts Service. GHS - Globally Harmonised System. TWA- Time Weighted Average.

Other information : None.

Full text of H-statements:

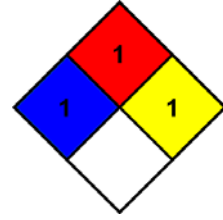
Comb. Dust	Combustible Dust
H232	May form combustible dust concentrations in air

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|--------------------|---|
| 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. |



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