

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 06.02.2014  
Product: **Nodulaid® Mung Bean, Cowpea**

Version: 1.1

(30587344/SDS\_GEN\_AU/EN)

Date of print 06.02.2014

## 1. Substance/preparation and company identification

### **Nodulaid® Mung Bean, Cowpea**

Use: Biological beneficial agent

Manufacturer/supplier:

BASF Agricultural Specialties Pty Ltd  
1205 Old Pacific Highway, Somersby  
NSW, 2250, AUSTRALIA  
Telephone: +61 2 4340-2246  
Telefax number: +61 2 4340-2243

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]  
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

No particular hazards known.

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

## 3. Composition/information on ingredients

Chemical nature

Contains: biological beneficial organism

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#### Hazardous ingredients

Nonylphenol, ethoxylated

Content (W/W): &lt; 1 %

CAS Number: 9016-45-9

The wording of the hazard symbols and R-phrases is specified in section 16 if dangerous ingredients are mentioned.

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## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Symptoms: No significant reaction of the human body to the product known.

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

### Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

### Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and Storage

### Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

### Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Store protected against freezing.

Protect from temperatures below: 5 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

no exposure standard allocated

### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

**Hand protection:**

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

**Eye protection:**

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

**Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form: solid, powder  
 Colour: black  
 Odour: mild

pH value: approx. 6 - 7.5  
 (20 °C)

Melting temperature: approx. 0 °C  
 Information applies to the solvent.

boiling temperature: approx. 100 °C  
 Information applies to the solvent.

Flash point: > 100 °C  
 Flammability: not applicable

Lower explosion limit:  
 As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit:  
 As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature:  
 Based on the water content the product does not ignite.

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Explosion hazard: Based on the chemical structure there is no indicating of explosive properties.

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Vapour pressure: approx. 23 hPa (20 °C)  
Information applies to the solvent.

Density: approx. 1 - 1.3 g/cm<sup>3</sup> (20 °C)

Relative vapour density (air): not applicable

Solubility in water: dispersible  
Partitioning coefficient n-octanol/water (log Pow): not applicable

Viscosity, kinematic: Forms a viscous solution.

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

**Substances to avoid:**

strong acids, strong bases, strong oxidizing agents

**Hazardous reactions:**

No hazardous reactions if stored and handled as prescribed/indicated.

**Hazardous decomposition products:**

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

**Assessment of acute toxicity:**

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

### **Irritation**

Assessment of irritating effects:  
Not irritating to the skin. Not irritating to the eyes.

### **Sensitization**

Assessment of sensitization:  
There is no evidence of a skin-sensitizing potential.

### **Repeated dose toxicity**

Assessment of repeated dose toxicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### **Genetic toxicity**

Assessment of mutagenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### **Carcinogenicity**

Assessment of carcinogenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### **Developmental toxicity**

Assessment of teratogenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### **Other relevant toxicity information**

Misuse can be harmful to health.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:  
No data available.

Aquatic invertebrates:  
No data available.

Aquatic plants:  
No data available.

### **Mobility**

Assessment transport between environmental compartments:  
Due to the product characteristics the test is impossible.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
The product has not been tested. The statement has been derived from the properties of the individual components.

Biodegradable.

### **Bioaccumulation potential**

Assessment bioaccumulation potential:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Bioaccumulation potential:  
At the present state of knowledge, no negative ecological effects are expected.

### **Additional information**

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:  
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## **14. Transport Information**

### **Domestic transport:**

Not classified as a dangerous good under transport regulations

### **Sea transport**

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IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

Poisons Schedule: Not scheduled

### **Regulations of the European union (Labelling)**

#### EEC Directives:

The product does not require a hazard warning label in accordance with EC Directives.

#### **Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### **Registration status:**

AICS, AU released / exempt

crop protection product

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## 16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in section 3:

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.