

Safety Data Sheet

Product Name: NoduleN TM Legume Inoculant Issue Date: March 2020	Version: 3.0 Page: Page 1 of 6
--	-----------------------------------

1. Identification of The Material and Supplier

Product name	NoduleN TM Legume Inoculant.
Other names	Peat Legume Inoculant.
Product use	For application to legume seed at or prior to sowing.
Manufacturer name	New Edge Microbials Pty Ltd.
Address	951 Garland Ave Albury NSW 2640.
Telephone number	02 6025 0044.

2. Hazards Identification

Non-hazardous substance. Non dangerous goods. Not classified as Hazardous according to the criteria of NOHSC.

Dangerous goods class	
& subsidiary risk	Not applicable
Hazchem code	Not applicable
Hazard class	Not applicable
Risk phrases	Not applicable
Safety phrases	Not applicable

3. Composition / Information on Ingredients

Ingredient (common name)	<i>Rhizobium / Bradyrhizobium / Sinorhizobium spp.</i> nitrogen fixing bacteria in an inert peat carrier. All microbial species guaranteed to be GM free.
CAS Number	N/A
Proportion (by weight)	<i>Rhizobium / Bradyrhizobium / Sinorhizobium spp.</i> nitrogen fixing bacteria – 50%. Inert peat carrier – 50%.

Safety Data Sheet

Product Name: NoduleN TM Legume Inoculant Issue Date: March 2020	Version: 3.0 Page: Page 2 of 6
--	-----------------------------------

4. First Aid Measures

Inhalation	If difficulty in breathing occurs, move affected person to fresh air. Loosen clothing to ease breathing. Seek immediate medical attention.
Ingestion	Maybe harmful if swallowed. Rinse mouth thoroughly with clean water.
Skin	If irritation develops seek medical attention. Remove and wash contaminated clothing before reuse.
Eyes	Avoid contact with eyes. May irritate the eyes. Flush eyes with flowing water for at least 15 minutes. If irritation persists, continue to flush with flowing water and seek medical attention.

5. Firefighting Measures

For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.

Suitable extinguishing media Foam, alcohol foam, CO₂, dry chemical, water fog.

Hazardous combustion products Burning will not create noxious fumes.

Fire-fighting equipment Fire fighters should wear butyl rubber boots, gloves and body suit and a self-contained breathing apparatus.

Unusual fire or explosion hazard Not a fire or explosion hazard when stored under normal conditions.

Hazchem Code N/A

6. Accidental Release Measures

Spills Wear elbow length rubber gloves and half facepiece respirator. Collect and put back into airtight containers. Wash off any contaminated surface with water and detergent. Use disinfectants if possible.

Safety Data Sheet

Product Name: NoduleN TM Legume Inoculant Issue Date: March 2020	Version: 3.0 Page: Page 3 of 6
--	-----------------------------------

7. Handling and Storage

Handling	Exercise normal care in handling. Do not remove from plastic packaging until ready to use - avoid contaminating the culture.
Storage	Store in the closed original packaging in a clean, dry area, within a temperature range of 4 -10°C.

8. Exposure Controls/Personal Protection

Exposure standards	None allocated
Respiratory protection	Wear a half face piece respirator or dust mask.
Eye protection	Chemical goggles, safety glasses or face shield.
Skin protection	Elbow length rubber gloves, overalls, apron, and boots are necessary to prevent skin contact.
Hygienic practices	Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term buildup of the product leading to chronic overexposure. Emergency eye wash must be readily available within work area.

9. Physical and Chemical Properties

Appearance	Black / brown moist powder.
Composition	1 x 10 ⁹ /g viable <i>Rhizobium</i> / <i>Bradyrhizobium</i> / <i>Sinorhizobium</i> spp. bacteria (at the time of manufacture) in a milled pre-sterilized peat carrier.
Odour	Mild odour
Solubility in water	Insoluble
Boiling Point / Range	N/A
pH	6.5 – 7.0
Evaporation rate	N/A
Vapour density (Air = 1)	N/A

Safety Data Sheet

Product Name: NoduleN TM Legume Inoculant Issue Date: March 2020	Version: 3.0 Page: Page 4 of 6
--	-----------------------------------

Specific gravity (H ₂ O=1)	0.85
Particle size	> 100 µm
Flash point	N/A
Flammable limit – lower	N/A
Flammable limit – upper	N/A
Moisture content	50 – 60%

10. Stability and Reactivity

Chemical stability	Stable.
Incompatible materials	Long term storage in direct contact with reactive metals such as aluminium, zinc, copper, nickel and magnesium. Other materials to avoid include strong oxidizing agents, disinfectants, fungicides, and biocides.
Hazardous	
Decomposition products	Will not emit noxious fumes.
Hazardous polymerization	Will not occur.
Conditions to avoid	Extremes in temperature. High humidity. Microorganisms denature ≥ 40°C. Direct sunlight.

11. Toxicological Information

Routes of exposure	Inhalation, eyes, ingestion, and skin.
Health effects from likely routes of exposure	
Ingestion	Maybe harmful if swallowed.
Inhalation	Prolonged inhalation may lead to respiratory tract irritation.
Eye	Prolonged or repeated exposure may cause mechanical irritation.
Skin	Prolonged or repeated exposure may cause irritation, redness, and inflammation.
Effects of overexposure	Long term exposure may cause mechanical irritation of the eyes as well as skin and respiratory tract irritation.

Safety Data Sheet

Product Name: NoduleN TM Legume Inoculant Issue Date: March 2020	Version: 3.0 Page: Page 5 of 6
--	-----------------------------------

Existing conditions

aggravated by exposure	May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.
Carcinogenicity	No information available.

12. Ecological Information

Ecotoxicity	No information available
Mobility	No information available

13. Disposal Considerations

Disposal methods and containers

Dispose according to applicable local and government regulations.
Dispose of in a local authority landfill. Dispose of empty packaging by wrapping and placing in the garbage disposal system. Do not contaminate streams, rivers, or waterways.

14. Transport Information

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous Goods by Road & Rail.

UN number	N/A
Proper shipping name	N/A
Dangerous goods class	N/A
Hazchem code	N/A
Packing group	N/A

15. Regulatory Information

Not applicable

Safety Data Sheet

Product Name: NoduleN TM Legume Inoculant Issue Date: March 2020	Version: 3.0 Page: Page 6 of 6
--	-----------------------------------

16. Other Information

Last revision of SDS August 2020

Emergency Contacts

Police and Fire Brigade (Australia)	000
Poisons Information Centre (Australia)	131 126

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issue. New-Edge Microbials Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used. Please read the product label before using the product.