MATERIAL SAFETY DATA SHEET



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Version: 1801

	1. IDENTIFICATION
Product Name:	N-Force™ Soybean Inoculant
Chemical Description:	Bacterial Inoculant
Trade Name:	N-Force [™]
Distributed By:	Olympus Seed Treatment Formulators Inc. 16545 Southpark Drive Westfield, IN 46074 Tel: 317-867-2238
For Chemical Emergencies, Call:	INFOTRAC 24 HOURS A DAY AT: 1-352-323-3500 (International) 1-800-535-5053 (North America)
2. HAZARDOUS COMPONENTS	

There are no components in this product at concentrations which require notification per OSHA Hazard Communications Standard 29 CFR 1910.1200. However, this Material Safety Data Sheet (MSDS) contains valuable information critical to the safe handling and proper use of this product. This MSDS should be maintained and available for employees and other users of this product.

Additive:	Protein Complex and Bradyrhizobium japonicum
3.	PHYSICAL CHARACTERISTICS
Appearance:	Dark Brown Liquid
Odor:	Mild
	> 212° F
Boiling Point:	
Water Solubility:	Complete
Specific Gravity:	1.003
Percent Volatile:	None
pH:	6.0 – 7.0
Melting Point / Freezing Point:	28° F
Flash Point:	N/A
Evaporation Rate:	Not Determined
Flammability (Solid/Gas):	Not Determined
Upper Flammability Limits:	Not Determined
Lower Flammability Limits:	Not Determined
Vapor Pressure:	Not Determined
Vapor Density:	Not Determined

Not Determined
Not Determined
None known

5.

4. HEALTH AND FIRST AID DATA

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Threshold Limit Value:	N/A
POTENTIAL EFFECTS OF OVEREXPOSU	RE: Slightly Alkaline
General Advice:	Provide this MSDS sheet to medical personnel for treatment
Eyes:	Mild eye irritant. Exposure may cause irritation and reddening of the eye.
	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritations persist seek further medical advice
Skin:	Mildly irritating to skin. Exposure to skin or mucous membranes may produce defatting, absorption of skin oils, smarting, redness, or contact dermatitis.
	Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse.
Inhalation:	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition
	declines or if symptoms persist.
Ingestion:	Do not induce vomiting. Rinse mouth. Seek further medical

REACTIVITY DATA AND FIRE-FIGHTING MEASURES

attention if you feel unwell.

Stability:	Stable under normal operating conditions.
Conditions to Avoid:	Contact with strong acids
Incompatibility with Other Materials:	Strong acids.
Suitable Extinguishing Media:	Use extinguishing measures appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media:	Not Determined
Specific Fire Fighting Hazards:	Product is not flammable

Protective Fire Fighting Equipment:

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

6.	SPECIAL PROTECTION INFORMATION
Protective Equipment:	Standard precautionary procedures when mixing with chemicals, including eye protection, are recommended. It is strongly recommended contact lenses not be worn when working with chemicals because they may increase the severity of an eye injury.
Respiratory Protection:	None
Work/Hygienic Practices:	Wash thoroughly after handling.
Storage Conditions:	Keep container tightly closed in a dry, cool and well-ventilated location.
Handling and Storage Precautions:	Freezes at approximately 28° F. Keep from freezing.
Incompatible Materials:	Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this product. See product label on the use of fungicides or other chemical in conjunction with seed treatment.

	7.	SPILL CONTROL AND DISPOSAL PROCEDURES
Waste Disposal:		Wash with large amounts of water.
Personal Precautions:		Use personal protective equipment as required
Environment Precautions:		See section 10 for additional Ecological information
Method for Containment:		Prevent further leakage or spillage if safe to do so
Methods for Clean-Up:		Keep in suitable, closed container for disposal.
		8. TOXICOLOGY DATA
Acute Oral Toxicity: Acute Dermal Toxicity: Eye Toxicity: NOT A SKIN IRRITANT NOT AN EYE IRRITANT		LD50 (rat) = >5 ml/kg LD50 (rabbit) = >200 ml/kg >5 ml/35 ml water

9. REGULATORY AND SHIPPING INFORMATION

DOT Shipping Name:	NONE
Hazard Class:	NONE
Label Requirements:	NONE
Packaging Group:	NONE
UN/NA Number:	NONE
Reportable Quantity:	NONE
DOT:	Not Registered
IATA:	Not Registered
IMDG:	Not Registered
International Inventories:	None
US Federal Regulations:	Not Determined
SARA 313:	Not Determined
US State Regulations:	Not Determined
US State Right to Know Regulations:	Not Determined

10. ECOLOGICAL INFORMATION

Ecotoxicity:	This product contains nonpathogenic, biodegradable Rhizobacterial strain(s) that occur naturally in soil
Component Information:	Mixture
Persistence / Degradability:	Not Determined
Bioaccumulation:	Not Determined
Mobility:	Not Determined
Other Adverse Effects:	Not Determined

11. DISCLAIMER

The information provided in the Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. This information relates to only the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Olympus Seed Treatment Formulators Inc. extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purpose or for the consequences of its use.

END OF MATERIAL SAFETY DATA SHEET