

### 1. IDENTIFICATION

<u>Product Identifier</u>	
Product(s) Name	Inocuprime™ Soybean Liquid Inoculant
<u>Other means of identification</u>	
SDS #	FFN: Not Assigned
<u>Recommended Use of the Chemical and Restrictions on Use</u>	
Recommended Use	Seed treatment or In-Furrow
<u>Details of the Supplier of the Safety Data Sheet</u>	
Supplier Address	Locus Agricultural Solutions 30600 Aurora Road, Ste 180 Solon, OH 44139
<u>Emergency Telephone Number</u>	
Company Phone:	1-440-561-0812
Emergency Telephone (24 hr)	Chemtrec (800) 424-9300

### 2. HAZARDS IDENTIFICATION

Appearance	Beige to brown opaque liquid	Physical state	Liquid	Odor	Mild
<u>Classification</u>					
This chemical does meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained for employees and other users of this product.					

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The active microbiological ingredient in this product is a living culture of naturally occurring, symbiotic nitrogen-fixing rhizobacteria, <i>Bradyrhizobium japonicum</i> . Primary (inert) ingredient is water.	
This product is supplied to be used as a seed treatment or in-furrow application for soybean growers and eventual application to legume seeds and fields. This product is not intended for food, feed or drug use.	

### 4. FIRST-AID MEASURES

<u>First-Aid Measures</u>	
General Advice	Provide this SDS to medical personnel for treatment

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Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If eye irritation persists, get medical advice.
Skin Contact	Wash immediately with plenty of water. Remove contaminated clothing and wash before reuse.
Inhalation	Remove exposed individual 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. Get medical attention if exposed individual feels unwell.
<u>Most important symptoms and effects</u>	
Symptoms	May cause skin and eye irritation.
<u>Indication of any immediate medical attention and special treatment needed</u>	
Notes to physician	Treat symptomatically.
<b>5. FIRE-FIGHTING MEASURES</b>	
<u>Suitable Extinguishing Media</u>	
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Product is predominantly water. Packaging is predominantly polyethylene.	
	Unsuitable Extinguishing Media: Not determined.
<u>Specific Hazards Arising from the Chemical</u>	
Product is not flammable.	
<u>Protective Equipment and Precautions for Firefighters</u>	
As in any fire, wear self-contained breathing apparatus, pressure demand. MSHA/NIOSH (or approved equivalent) and full protective gear. Product poses no specific or unique hazards.	
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<u>Personal precautions, protective equipment and emergency procedures</u>	
Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	See Section 12 for Ecological Information.
<u>Methods and material for containment and cleaning up</u>	

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Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Keep in suitable, closed containers for disposal.
<b>7. HANDLING AND STORAGE</b>	
<u>Precautions for Safe Handling</u>	
Advice on Safe Handling	Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.
<u>Conditions for Safe Storage, Including Any Incompatibilities</u>	
Storage Conditions	Prevent further leakage or spillage if safe to do so.
Incompatible Materials	Avoid contact with antimicrobials soaps and detergents, bleach or similar disinfecting chemicals as product efficacy will be adversely impacted. There are no known hazardously incompatible materials.
<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
<u>Exposure Guidelines</u>	No exposure limits noted for ingredient(s). The following information is given as general guidelines.
<u>Appropriate Engineering Controls</u>	
Engineering Controls	Apply technical measures to comply with the occupational exposure limits.
<u>Individual Protection Measures, Such as Personal Protection Equipment</u>	
Eye / Face Protection	Wear eye / face protection.
Skin and Body Protection	Wear suitable protective clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practices.
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<u>Information on Basic Physical and Chemical Properties</u>	
Physical State	Liquid
Appearance	Beige to light brown opaque liquid

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Color	Beige to light brown
Odor	Mild
Odor Threshold	Not Determined
<u>Property</u>	<u>Values</u> <span style="float: right;"><u>Remarks/Methods</u></span>
pH	6.5-7.4
Melting Point/Freezing Point	-4°C / 25°F
Boiling Point/Boiling Range	102°C / 216°F
Flash Point	Not Determined
Evaporation Rate	Not Determined
Flammability (Solid, Gas)	Not Determined
Upper Flammability Limit	Not Determined
Lower Flammability Limit	Not Determined
Vapor Pressure	Not Determined
Vapor Density	Not Determined
Specific Gravity	1 g/cc
Water Solubility	Insoluble in water
Solubility in Other Solvents	Not Determined
Partition Coefficient	Not Determined
Auto-Ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Kinematic Viscosity	Not Determined
Dynamic Viscosity	Not Determined
Explosive Properties	Not Determined
Oxidizing Properties	Not Determined
<b>10. STABILITY AND REACTIVITY</b>	
<u>Reactivity</u>	Not reactive under normal conditions.
<u>Chemical Stability</u>	Stable under recommended storage conditions.
<u>Possibility of Hazardous Reactions</u>	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
<u>Conditions to Avoid</u>	Incompatible materials.
<u>Incompatible Materials</u>	Avoid contact with antimicrobials soaps and detergents, bleach or similar disinfecting chemicals as product efficacy will be adversely impacted. There are no known hazardously incompatible materials.
<u>Hazardous Decomposition Products</u>	Oxides of carbon.

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### 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

##### Product Information

##### Eye Contact

Direct contact with eyes may cause temporary irritation.

##### Skin Contact

May cause temporary irritation on skin contact.

##### Inhalation

Not an expected route of exposure.

##### Ingestion

May cause discomfort if swallowed.

##### Component Information

Mixture

#### Information on Physical, Chemical and Toxicological Effects

##### Symptoms

See Section 4 of this SDS.

#### Delayed and Immediate Effects as well as Chronic Effects from Short Term and Long Term Exposure

##### Sensitization

Not a skin sensitizer.

##### Carcinogenicity

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

#### Numerical Measures of Toxicity

##### Oral LD50

> 5000 mg/kg

##### Dermal LD50

> 2000 mg/kg

### 12. ECOLOGICAL INFORMATION

##### Ecotoxicity

This product contains nonpathogenic, biodegradable Rhizobium strain(s) that occur(s) naturally in soil.

##### Component Information

Mixture

##### Persistence/Degradability

Not determined.

##### Bioaccumulation

Not determined.

##### Mobility

Not Determined

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<u>Other Adverse Effects</u>		Not Determined		
<b>13. DISPOSAL CONSIDERATIONS</b>				
<u>Waste Treatment Methods</u>				
Disposal of Wastes		Disposal should be in accordance with acceptable regional, national and local laws and regulations.		
Contaminated Packaging		Disposal should be in accordance with acceptable regional, national and local laws and regulations.		
<b>14. TRANSPORT INFORMATION</b>				
<u>Note</u>		Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.		
<u>DOT</u>		Not regulated.		
<u>IATA</u>		Not regulated.		
<u>IMDG</u>		Not regulated.		
<b>15. REGULATORY INFORMATION</b>				
<u>International Inventories</u>		None.		
<u>U.S. Federal Regulations</u>				
<u>SARA 313</u>		Not determined.		
<u>U.S. State Regulations</u>				
<u>U.S. State Right-to-Know Regulations</u>		Not determined.		
<b>16. OTHER INFORMATION</b>				
<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined

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<u>HMIS</u>	Health Hazards 0	Flammability 0	Physical Hazards 0	Personal Protection Not determined
Issue Date:	09-Sep-2024			
Revision Date:	None			
Revision Note:	None			
Disclaimer				
<p>The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. This information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not considered a warranty or quality specification. The information relates only to 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.</p>				
End of Safety Data Sheet				