Safety Data Sheet

Issue Date: 20	-Jun-2015	Revision Date:	11-Apr-2016	Version	3
		1. IDENT	IFICATION		
Product Identific Product Name	er_	PRIMO			
Other means of SDS #	identification	VLS-122			
Document		AKA for this product: PR	IMO POWER, N-Take, and Accolade-L		
Recommended use of the chemical a Recommended Use		and restrictions on use Fertilizer.			
Supplier Addres	ciences, U.S., LLC.	data sheet			
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)		Business Phone: 1-800-3 Fax Phone: (919) 535-36 INFOTRAC 1-352-323-3 1-800-535-5053 (North A	552 500 (International)		
2. HAZARDS IDENTIFICATION					
Appearance Y	ellow to brown liquid	Physical S	state Liquid	Odor N	/lild
Classification					

This chemical does not 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 and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Liquid inoculant products containing live culture of nitrogen fixing rhizobium bacteria. Product may also contain a separate aqueous additive of Azospirillum bacteria as a growth promoter.

Contains naturally occurring Rhizobacterium and growth enhancement compounds.

These are symbiotic nitrogen-fixing bacteria, to be applied as a seed treatment or in-furrow at seed planting, to specific legume crops (not a plant food product). See product label for specific crop information, application rates and methods. Not for food, feed or drug use.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.	
Skin Contact	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. Get medical attention if you feel unwell.	
Most important symptoms and effects		
Symptoms	May cause skin and eye irritation.	
Indication of any immediate medical attention and special treatment needed		

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.		
Environmental Precautions	See Section 12 for additional Ecological Information.		

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE Precautions for safe handling Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Conditions for safe storage, including any incompatibilities **Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. **Incompatible Materials** Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this product. See product label for further information on the use of fungicides or other chemicals in conjunction with seed treatment. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Exposure Guidelines No exposure limits noted for ingredient(s). The following information is given as general guidance Appropriate engineering controls **Engineering Controls** Maintain eye wash fountain and quick-drench facilities in work area. Individual protection measures, such as personal protective equipment **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 practice. 9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Yellow to brown liquid Yellow to brown	Odor Odor Threshold	Mild Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature	Values 6.5-7.4 -4 °C / 25 °F 102 °C / 216 °F Not determined Not determined Not determined Not determined Not determined Not determined 1.0 g/cc Insoluble in water Not determined Not determined Not determined Not determined Not determined Not determined Not determined	<u>Remarks • Method</u>	

Decomposition TemperatureNotKinematic ViscosityNotDynamic ViscosityNotExplosive PropertiesNotOxidizing PropertiesNot

Not determined Not determined Not determined Not determined Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Incompatible Materials.

Incompatible Materials

Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this product. See product label for further information on the use of fungicides or other chemicals in conjunction with seed treatment.

Hazardous Decomposition Products

Oxides of carbon.

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	Please see section 4 of this SDS for symptoms.	
Delayed and immediate effects as well as chronic effects from short 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

Product Information

Oral LD50	>	5000	mg/kg
Dermal LD50	>	2000	mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Component Information Mixture

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
14. TRANSPORT INFORMATION		
Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.	
DOT	Not regulated	
IATA_	Not regulated	
IMDG	Not regulated	

15. REGULATORY INFORMATION

International Inventories

NONE

US Federal Regulations

SARA 313

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

0

Not determined

16. OTHER INFORMATION

NFPA HMIS

Health Hazards Not determined **Health Hazards**

20-Jun-2015

11-Apr-2016

Phone Number Update

Flammability Not determined Flammability 0

Instability Not determined **Physical Hazards** 0

Special Hazards Not determined **Personal Protection** Not determined

Disclaimer

Issue Date:

Revision Date:

Revision Note:

The information provided in this 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 and is not to be 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.

End of Safety Data Sheet

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