

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT IDENTIFICATION

Product identifier: **Base Mn**

Supplier name and address:

Plant Science Inc.

29334 Vandorf Sideroad
Gormley, Ontario, Canada
L0H 1G0

Emergency Telephone #: 613-996-6666 (Canutec)

Product use: Liquid Micronutrient Fertilizer
containing manganese and molybdenum.

Manufacturer's name and address:

Refer to Supplier

WHMIS information:

SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

<u>Component:</u>	<u>% (weight)</u>
Proprietary formulation of a liquid Manganese fertilizer	100%

* contains 0.5% (m/m) Boron

SECTION 3 — PHYSICAL AND CHEMICAL PROPERTIES

% Manganese (Mn)	4.5 – 6.5%
Appearance:	Dark Brown/Black liquid.
Odour:	Fruity
Specific Gravity:	1.22 – 1.24
Water Solubility:	Completely soluble.
pH (10% solution):	5.5 – 7.5

SECTION 4 — FIRE AND EXPLOSION DATA

Flash Point And Method	: Non flammable
Extinguishing Media	: Dry powder, carbon dioxide, water, foam
Unusual Fire Hazards	: None known
Unusual Explosion Hazards	: None known
Special Fire Fighting	:
Procedures And Precautions	: None

SECTION 5 — REACTIVITY AND STABILITY DATA

Stability	: Stable in normal use and storage. Store in sealed containers.
Conditions to Avoid	: None known
Hazardous Polymerization	: Will not occur
Hazardous Decomposition	:
Products	: None known
Incompatibility	: Lime Sulphur and Bordeaux Mixture
(Materials to avoid)	:

SECTION 6 — TOXICOLOGICAL INFORMATION

Routes of exposure:	Skin contact, eye contact, inhalation and ingestion.	
Eye Contact	:	Mild eye irritant.
Skin Contact	:	Mild skin irritant.
Inhalation	:	Low toxicity. Not usually a problem.
Ingestion	:	Low toxicity. Treat symptomatically.

SECTION 7— FIRST AID MEASURES

Inhalation: If breathing is difficult, remove person to fresh air. If breathing stops, provide rescue breathing and obtain medical attention immediately.

- Skin contact:** Wash affected area with soap and water, while removing contaminated clothing. Launder clothing before re-use. If irritation persists, seek medical attention.
- Eye contact:** Immediately flush eyes with running water for at least 15 minutes. If irritation persists, seek medical attention.
- Ingestion:** If swallowed, induce vomiting. Obtain medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 8 — PREVENTATIVE MEASURES

- Spill or Leak Procedures:** Soak up on dust-free sawdust and place in a marked container Wash down area with water.
- Waste Disposal:** Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable laws and regulations.

PROTECTIVE EQUIPMENT

- Ventilation and engineering controls:** Use with adequate ventilation.
- Respiratory protection:** Use NIOSH approved respirators.
- Protective gloves:** Wear rubber gloves impervious to the material.
- Eye protection:** Chemical goggles, to prevent liquid splashes from entering the eyes.
- Other protective equipment:** Wear chemically resistant overalls and impervious boots to prevent skin contact. A safety shower and eyewash station should be made available in the immediate working area.

STORAGE & HANDLING

- Handling and Storing**
- Precautions:** Store in a cool, dry, well-ventilated area. Protect from freezing. Avoid contamination of food, feed, domestic or irrigation water supplies, lakes, streams and ponds.

Special Shipping Information:

Transportation of Dangerous Goods (TDG) information: not regulated for transport
Shipping Description: liquid micronutrient fertilizer.

SECTION 9 — PREPARATION INFORMATION

- Prepared by:** Plant Science Inc.
Telephone number: 1-866-499-0659
Preparation date: August 22 2015

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