

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT IDENTIFICATION

Product identifier: **Turf•Balance**

Product use: Liquid Fertilizer

Supplier name and address:

Plant Science Inc.

2934 Vandorf Sideroad
Gormley, Ontario, Canada
L0H 1G0

Manufacturer's name and address:

Refer to Supplier

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

WHMIS information:

SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

<u>Component:</u>	<u>% (weight)</u>
Proprietary formation of a liquid Nitrogen, Phosphorus, Potassium, Manganese, Magnesium, Iron, Copper, Zinc fertilizer	100%

* contains 0.05% Silica

SECTION 3 — PHYSICAL AND CHEMICAL PROPERTIES

% Nitrogen (N)	16.0%
% Phosphorus (P₂O₅)	3.0%
% Potassium (K₂O)	6.0%
% Magnesium (Mg)	0.5%
% Manganese (Mn)	0.1%
% Boron (B)	0.05%
Appearance:	Dark Brown/Black liquid.
Odour:	Fruity
Specific Gravity:	1.25 - 1.27
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:** Immediately remove person to fresh air. If breathing stops, provide rescue breathing. If breathing is difficult, give oxygen. Obtain medical attention immediately.
- Skin contact:** Immediately flush skin with running water for at least 20 minutes, while removing contaminated clothing. Obtain medical attention immediately. Launder clothing before re-use.
- Eye contact:** Immediately flush eyes with running water for at least 20 minutes. Obtain medical attention immediately.
- Ingestion:** If swallowed, do NOT induce vomiting. Have victim drink one to two glasses of water to dilute material in the stomach. If milk is available it may be given after water. 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:** Dispose of at incinerator or landfill site.

*****PROTECTIVE EQUIPMENT*****

- Ventilation and engineering controls:** Use with adequate ventilation. Exhaust ventilation may be required to meet TLV requirements.
- Respiratory protection:** Respiratory protection is required if the airborne concentration exceeds the TLV. Use NIOSH approved respirators. For emergencies or where the airbourne concentration is not known, use a full-face air-supplied respirator. Advice should be sought from respiratory protection specialists.
- Protective gloves:** Wear gloves impervious to the material. Advice should be sought from glove suppliers.
- 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. Do not contaminate water, food or feed by storage or disposal.

Special Shipping Information:

Transportation of Dangerous Goods (TDG) information:

Shipping Description: non-hazardous, liquid micronutrient fertilizer.

SECTION 9 — PREPARATION INFORMATION

- Prepared by:** Plant Science Inc
Telephone number: 1-866-499-0659
Preparation date: June 1, 2009

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