

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet meets or exceeds the requirements of the 29 CFR 1910.1200 (OSHA)

1. Product and Supplier Identification

Product: Rev

Product Use: Plant Foliar Spray

Manufacturer: **Tulsi Enterprises Ltd.**
10328 Hall Avenue,
Richmond, BC Canada V6X 3T9
Emergency Telephone: (604) 218-8567

Supplier: As above

2. Composition

Component	% (w/w)	Exposure Limits (ACGIH)*	LD ₅₀	LC ₅₀
All ingredients do not meet requirements for disclosure	100	Not applicable	Not applicable	Not applicable

* Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

* ACGIH – American Conference of Governmental Industrial Hygienists

3. Hazards Identification

Routes of Entry:

Skin Contact: No Eye Contact: No Ingestion: Yes Inhalation: No

Acute Health Effects: This product is mildly acidic. Contact with skin is not expected to cause any irritation in normal skin. Person with a predisposed skin condition may experience a mild rash or itching. This product is a moderate eye irritant, producing transient pain. This product is not considered toxic by ingestion. Ingestion of large amounts may produce gastro intestinal upset resulting in diarrhea. Not considered to be an inhalation hazard unless the product is heated or misted. Inhalation of vapours or mists may cause moderate irritation of the nose, throat and upper respiratory tract.

Chronic Health Effects: Prolonged or repeated contact with skin may cause dryness, cracking of skin, rash and itchiness, No ingredients are likely to cause skin or respiratory sensitization. No other chronic effects are anticipated.

4. First Aid Measures

EYE CONTACT: Flush contaminated eye(s) with lukewarm, gently running water for 15 minutes, holding eyelids open. Seek medical attention if irritation persists.

SKIN CONTACT: Wash affected area immediately with mild soap and water and continue for 15 minutes. If irritation persists, seek immediate medical attention. Remove any contaminated clothing and launder clothing before reuse.

INHALATION: This is an unlikely route of entry, but if victim has been exposed to mist or vapours, remove to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get medical attention immediately.

INGESTION: Do not induce vomiting. Give 240-300 ml of water to dilute material. If vomiting occurs naturally, have victim lean forward with head between knees to reduce risk of aspiration. Seek medical attention.

5. Fire Fighting Measures

Flash point:	Not applicable
Autoignition temperature:	Not applicable. See information under "Fire Fighting Instructions"
Lower Explosive Limit:	Not applicable
Upper Explosion Limit:	Not applicable
Sensitivity to Impact:	Not sensitive.
Sensitivity to Static Discharge:	Not sensitive.

Hazardous Combustion Products: Numerous unidentified organics in smoke.

Extinguishing Media: This product is not combustible. Use any means to extinguish surrounding fire. Water spray may be used to cool surrounding containers.

Fire Fighting Instructions: This product is an aqueous solution, and will not combust. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus.

6. Accidental Release Measures

Personal Protection: See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

Environmental Precautions: Not expected to have any environmental impact.

Cleanup Procedures: Small spills of this product are not expected to have any detrimental environmental effects, but caution should be taken to prevent larger spills from entering waterways. Absorb spill onto inert medium and place into proper containers for disposal. Thoroughly flush residue with water.

7. Handling and Storage

Handling Procedures: Keep container tightly closed when not in use. Avoid methods of use that will cause misting of product. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products. Keep from freezing.

Storage: Store in cool, dry place and in an upright position to prevent leakage.

8. Exposure Controls, Personal Protection

Engineering Controls: Under manufacturers recommended use, no particular controls necessary.

Respiratory Protection: Not necessary if used as recommended.

Skin Protection: If predisposed to skin problems, it is recommended that any chemically impervious gloves and/or clothing be used. Barrier cream may be used if contact is sporadic.

Eye and Face Protection: Using chemical splash-proof goggles is recommended.

Footwear: As required by worksite rules.

Other: Eye wash station should be located near work area.

9. Physical and Chemical Properties

Appearance:	Liquid	Freezing Point	Not determined
Odour:	None	Boiling Point:	≈100 °C
Odour Threshold:	Not applicable	Critical Temperature:	Not determined
pH:	2.6	Relative Density:	Not determined (water = 1)
Vapour Pressure:	As for water	Partition Coefficient:	Not determined
Solubility:	Soluble in water in all concentrations.	Evaporation Rate:	Not determined
Vapour Density:	Not determined (air = 1)		

10. Stability and Reactivity

Chemical Stability and Reactivity: Product is stable.

Incompatibility: None known

Hazardous Decomposition Products: Numerous unidentified organics in smoke.

Hazardous Polymerization: Hazardous polymerization will not occur.

11. Toxicological Information

Acute Exposure Theoretical oral LD₅₀ for the product is greater than 25 g/kg (oral/rat). The LD₅₀ (dermal) has not been determined.

Chronic Exposure: See Section 3.

Exposure Limits: See Section 2.

Irritancy:	See Section 3.
Sensitization:	See Section 3.
Carcinogenicity:	Not available
Teratogenicity:	Available information does not indicate that this product is a teratogen.
Reproductive toxicity:	The proprietary ingredient is a reproductive hazard, but because of the relatively small amount of proprietary ingredient in this product, no ill effects are anticipated unless copious amounts are consumed.
Mutagenicity:	Available information does not indicate that this product is a mutagen
Synergistic products:	None known

12. Ecological Information

Environmental toxicity: No data available.

Biodegradability: No data available.

13. Disposal Considerations

Canadian Environmental Protection Act: All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

14. Transport Information

Canadian Transportation of Dangerous Goods Regulations: Not regulated.

International Air Transport Association (IATA): Not regulated.

International Maritime Organization (IMO): Not regulated.

15. Regulatory Information

Canadian Federal Regulations:

Canadian Environmental Protection Act: All ingredients are on the Domestic Substances List.
WHMIS Classification: D2B

UNITED STATES – FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA): All components are listed in the inventory.

OSHA, 29 CFR 1910, Subpart Z: Meets the criteria for a hazardous substance.

CERCLA, 40 CFR 302: No components have an RQ.

SARA 302, 40 CFR 355: No ingredients are listed.

SARA 313, 40 CFR 372: No ingredients are subject to the reporting requirements.

SARA 311/312, 40 CFR 370: Immediate (Acute) Health, Delayed (Chronic) Health.

PROPOSITION 65, California Safe Drinking Water and Toxicity Enforcement Act of 1986: No ingredients appear on the list of Carcinogens or Reproductive Toxins as published on the effective date of this Material Safety Data Sheet.

16. Other Information

Original Preparation Date: January 22, 2010

Prepared by: Tulsi Enterprises Ltd.

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Revisions: None