



# MATERIAL SAFETY DATA SHEET

## TYPHOON CLEANSE™

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### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Typhoon Cleanse™

**Product Use:** Flush solution for hydroponic systems.

**Supplier / Manufacturer:** Innovating Plant Products Inc.  
4150 Midport Road  
Campbell River, BC  
Canada, V5J 5G5  
Tel: 250-286-8914

### SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

**Typhoon Cleanse™** is a mixture of organic materials in aqueous solution to be used as a flush in hydroponic systems. The chemical identity of the ingredients and exact proportions used in the mixture are a proprietary trade secret, however, they are derived from plant extracts and citric acid.

Ingredient	CAS Number	% by Weight
Citric Acid	77-92-9	< 5%

### SECTION 3: HAZARDS IDENTIFICATION

#### \*\*\*Emergency Overview\*\*\*

This product is of low toxicity, but due to its acidity, pH  $\pm$  2.5, could cause skin and serious eye damage upon contact. For eye contact, remove contact lenses, and immediately flush eyes with running water for at least 15 minutes, and seek medical attention.

#### Potential Health Effects

**Ingestion:** Possible irritation if taken orally.

**Inhalation:** Overexposure by inhalation may cause respiratory irritation.

**Eye Contact:** Can result in corneal damage.

**Skin Absorption:** Not normal route of entry.

**Skin Contact:** Can cause irritation, and blistering, if not washed off affected area.

#### **SECTION 4: FIRST AID MEASURES**

**Ingestion:** Do NOT induce vomiting. Get medical attention if symptoms appear.

**Inhalation:** Remove to fresh air. Get medical attention if symptoms appear.

**Skin and Eye Protection:** Safety glasses. If prolonged or repeated skin contact is necessary, gloves or other protection may be required.

**Eye Contact:** Remove contact lenses, and immediately flush eyes with running water for at least 15 minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash exposed area with soap and water.

#### **SECTION 5: FIRE FIGHTING MEASURES**

**NFPA Rating: (estimated) Health: 3; Flammability: 1; Instability: 0**

**Flash Point:** Unknown.

**Auto-ignition Temperature:** Unknown.

**Flammability Classification:** Could be flammable at high temperatures.

**Fire Fighting Procedures:** Use dry chemical powder, water spray, fog, or foam. Do not use water jet..

**Unusual Fire and Explosion Hazards:** None listed.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Small Spills:** Wipe with absorbent towel or mop.

**Large spills:** Pump spilled material into containers for reuse or disposal. Avoid runoff and contact with water bodies, sewers, and drains.

## **SECTION 7: HANDLING AND STORAGE**

Persons handling product should use proper protective equipment and handle with care.

Store in original containers. Do not store in metal containers. Store away from incompatible materials. Corrosive in presence of aluminum, zinc, and copper. Store in cool, dry area to minimize product expansion and possible leakage.

Wash hands after handling product.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Ventilation Protection:** Natural ventilation is usually adequate.

**Respiratory Protection:** Avoid breathing mist. Process enclosures and local exhaust ventilation may be necessary if large quantities are handled to avoid accumulation of air contaminants associated with this product.

**Protective Clothing:** Rubber or plastic gloves.

**Eye Protection:** Safety glasses.

**Other:** Eye bath, shower, should be available.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Aqueous solution.

**Density:**  $\pm 1.1$

**pH:**  $\pm 2.5$

**Appearance and Odor:** Clear colorless liquid. Odorless.

**Water Solubility:** Soluble.

## **SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable at room temperature in closed containers, under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization does not occur.

**Conditions to Avoid:** Excess heat, incompatible materials.

**Chemical Incompatibilities:** Oxidizing agents, reducing agents, metals, alkalis.

**Hazardous Decomposition Products:** At extreme temperatures, Carbon monoxide and Carbon dioxide can evolve.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Toxicity:** No LD50 (oral, dermal or inhalation) have been determined.

**Carcinogenicity:** Not listed as carcinogen or teratogen.

**SECTION 12: ECOLOGICAL INFORMATION**

None listed.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Ensure any waste disposal is in compliance with applicable environmental regulations.

**SECTION 14: TRANSPORT INFORMATION**

**Shipping Name:** Not regulated by DOT

**Hazard Class:** None

**Reportable Quantity (RQ):** None

**Placard:** None

**Hazard Waste No:** None

**TDG (Canada) Shipping Name:** Not Regulated

**Hazard Class:** N/A

**SECTION 15: REGULATORY INFORMATION**

**WHMIS Classification:** Not subject to control under WHMIS.

**SERA :** N/A

**SECTION 16: ADDITIONAL INFORMATION**

The information contained herein is furnished without warranty of any kind. Users should consider these data only as supplement to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

**Revised:** January, 2013