



## SAFETY DATA SHEET

**Hypo**

*Revision Date: March 20, 2023*

### SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE

**Product Name:** Hypo

**Fertilizer Formula:** N / A

**Product Type:** Liquid

**Recommended Use:** Hydroponics

**Restrictions on use:** N / A

**Manufacturer:** Future Harvest Development LTD.

**Emergency Telephone Number:** 250-491-0255

**24 Hour Emergency Telephone Number:** CANUTEC 1-613-996-6666

### SECTION 2: HAZARD IDENTIFICATION

#### **2.1 Classification of the substance or mixture**

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP): Not classified.

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC(DPD): Not classified.

Classification according to 29 CFR 1910.1200 (OSHA HCS): Not classified.

#### **2.2 Label elements**

Labeling in accordance with Regulation 1272/2008 (CLP)

**Hazard pictograms:** Not required.

**Signal word:** Not required.

**Hazard statement(s):** Not required.

**Precautionary Statement(s):** Not required.

Labelling in accordance with 67/548/EEC as amended

**Hazard symbol(s):** Not required.

**Risk phrase(s):** Not required.

**Safety phrase(s):** Not required.

Labeling in accordance with Regulation 29 CFR 1910.1200 (OSHA HCS)

**Hazard pictograms:** Not required.

**Signal word:** Not required.

**Hazard statement(s):** Not required.

**Precautionary Statements:** Not required.

### **2.3 Other hazard**

Substance meets the criteria for BBT according to Regulation (EC) No. 1907/2006, Annex XIII:  
Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:  
Not applicable.

Other hazard which do not result in classification: Not applicable.

## **SECTION 3: COMPOSITION / IDENTIFICATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Concentration</b>	<b>Other Names</b>
Hypochlorous Acids	7790-92-3	> 0.1%	

**Note:** There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

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

### **4.1 Description of first aid measures**

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention if irritation occurs.

**Inhalation:** Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

**Ingestion:** Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Not available.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Not available.

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

#### **5.1 Extinguishing media**

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not suitable: Not available.

#### **5.2 Special hazards arising from the substance or mixture**

Non-combustible.

Hazardous thermal decomposition products: Under fire - oxides of phosphorous, oxides of potassium.

#### **5.3 Advice for firefighters**

Move containers from fire area, if possible, to do so without risk. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

#### **6.1 Personal precautions, protective equipment, and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Ensure adequate ventilation. Ventilate area of spill.

#### **6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements, or confined areas.

#### **6.3 Methods and materials for containment and cleaning up**

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

#### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

See Section 13 for additional waste treatment information.

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

### **7.1 Precautions for safe handling**

Do not breathe vapour. Avoid contact with skin and eyes. Wash thoroughly after handling. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information measures.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store and use away from heat, sparks, open flame, or any other ignition source.

Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.

**Packaging Materials Recommended:** Use original container.

### **7.3 Specific use(s):**

N / A

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

### **8.1 Control parameters**

**Occupational Exposure Limits:** None of the components have assigned exposure limits.

### **8.2 Appropriate engineering controls**

No data available.

### **8.3 Individual protection measures, such as personal protective equipment**

**General Information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye / Face Protection:** Wear safety glasses with side shields (or goggles).

**Skin / Hand Protection:** Chemical resistant gloves.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation, use respiratory protection.

**Hygiene Measures:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** Clear liquid.

**Odour:** Chlorine.

**Odour Threshold:** N / A

**pH:** 5.6 (Acidic).

**Initial Boiling Point / Boiling Range:** > 100°C

**Flash Point:** N / A

**Evaporation Rate:** Not volatile (butyl acetate=1).

**Flammability:** Not flammable.

**Upper / Lower Flammability or Explosive Limits:**

**Vapor Pressure:** 4.5 X 10<sup>-15</sup> Pa at 25°C- Not volatile.

**Vapor Density:** Not volatile.

**Relative Density:** 1.0 at 25.1±0.5°C (water=1).

**Solubility(ies):**

**Water Solubility:** Miscible.

**Partition Coefficient Octanol / Water:** Product is more soluble in water; log(octanol/water) < 1.

**Auto-ignition Temperature:** N / A

**Decomposition Temperature:** N / A

**Viscosity:** Not viscous.

**Explosive Properties:** Not explosive.

**Oxidizing Properties:** Not oxidizer.

## **9.2 Other information**

**Melting Point / Freezing Point:** < 0°C

**Molecular Weight:** N / A

**VOC:** Not an organic compound.

**Specific Gravity:** 1.00

**Miscibility:** Miscible.

**Fat Solubility:** N / A

**Gas Group:** N / A

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

### **10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

### **10.2 Chemical stability**

The product is stable under normal handling and storage conditions described in Section 7.

Reacts with acids and alkalis.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

### **10.4 Conditions to avoid**

Extreme humidity. Excess heat.

### **10.5 Incompatible materials**

Strong oxidizing agents and strong bases.

### **10.6 Hazardous decomposition products**

**Other Decomposition Products:** N / A

**In Event of Fire:** See Section 5.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

**Ingestion:** Irritating. May cause nausea, stomach pain and vomiting.

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** Causes mild skin irritation.

**Eye Contact:** Causes eye irritation.

### 11.2 Information on toxicological effects

**Acute Toxicity** (list all possible routes of exposure).

**Oral Product:** No data available.

**Dermal Product:** No data available.

**Inhalation Product:** No data available.

**Repeated Dose Toxicity Product:** No data available.

**Skin Corrosion / Irritation Product:** Causes mild skin irritation.

**Serious Eye Damage / Eye Irritation Product:** Causes eye irritation.

**Respiratory or Skin Sensitization Product:** Not a skin sensitizer.

**Carcinogenicity Product:** This substance has no evidence of carcinogenic properties.

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified.

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified.

Germ cell mutagenicity.

**In Vitro Product:** No mutagenic components identified.

**In Vivo Product:** No mutagenic components identified.

**Reproductive toxicity Product:** No components toxic to reproduction

**Specific Target Organ Toxicity - //Single Exposure Product:** None known.

**Specific Target Organ Toxicity - Repeated Exposure Product:** None known.

**Aspiration Hazard Product:** Not classified.

**Other Effects:** None known.

## SECTION 12: ECOLOGICAL INFORMATION

### **12.1 Toxicity**

**Toxicity to Fish:** N / A

**Toxicity to Crustaceans:** N / A

**Toxicity to Algae:** N / A

### **12.2 Persistence and Degradability**

Not applicable, since inorganic substance.

### **12.3 Bioaccumulative potential**

The potential for bioaccumulation considered to be minimal.

### **12.4 Mobility in soil**

**Soil / Water Partition Coefficient (Koc):** N / A

**Mobility:** Soluble in water.

### **12.5 Results of PBT and vPvB assessment**

N / A

### **12.6 Other adverse effects**

**Substances which have an unfavorable influence on the oxygen balance and can be measured using parameters such as BOD, COD, etc.:** Absent

**Substances which contribute to eutrophication:** N / A

## SECTION 13: DISPOSAL CONSIDERTATIONS

### **13.1 Waste treatment methods**

**Product:** Waste must be disposed of in accordance with federal, state, provincial and local environmental control regulations.

**Packing:** Empty containers should be taken for local recycling, recovery, or waste disposal.



## SECTION 14: TRANSPORT INFORMATION

**Canadian TDG:** Not Regulated.

**US DOT:** Not Regulated.

**IMDG:** Not Regulated.

**IATA:** Not Regulated.

## SECTION 15: REGULATORY INFORMATION

**TSCA Inventory:** Listed.

**Australia AICS:** On or in compliance with the inventory.

**Canada DSL Inventory List:** On or in compliance with the inventory.

**EINECS, ELINCS or NLP:** On or in compliance with the inventory.

**Japan (ENCS) List:** On or in compliance with the inventory.

**China Inv. Existing Chemical Substances:** Not in compliance with the inventory.

**Korea Existing Chemicals Inv. (KECI):** On or in compliance with the inventory.

**Canada NDSL Inventory:** Not in compliance with the inventory.

**Philippines PICCS:** On or in compliance with the inventory.

**US TSCA Inventory:** On or in compliance with the inventory.

**New Zealand Inventory of Chemicals:** On or in compliance with the inventory.

**Japan ISHL Listing:** On or in compliance with the inventory.

**Japan Pharmacopoeia Listing:** Not in compliance with the inventory.

## SECTION 16: OTHER INFORMATION

**SDS Prepared By:** Future Harvest Development LTD. Kelowna BC, Canada.

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