

SAFETY DATA SHEET

Section 1: Identification

1.1 Product identifier:

FloraPro™ Base Calcium + Micros 14-0-0 + 17% Ca

Other means of Identification: 30*9526

1.2 Recommended use:

Identified uses:

Hydroponic plant production, in nurseries and greenhouses.

Restrictions on use:

Read the label before using.

Keep out of reach of children.

1.3 Manufacturer:

General Hydroponics
2877 Giffen Ave
Santa Rosa, CA, U.S.A.
95407

Supplier:
Hawthorne Canada Limited
199 Bay Street
Suite 5300 Commerce Court West
Toronto, Ontario, Canada
M5L 1B9

1.4 Emergency telephone number (24-hours):

CHEMTREC in U.S.A.: 1-800-424-9300

International: 1-703-527-3887

Section 2: Hazard Identification

2.1 Classification:

Classified according to US Hazard Communication Standard (HCS 2012) and Canada Hazardous Products Regulations (WHMIS 2015).

Eye damage Cat. 1

Acute toxicity (oral) Cat. 4

2.2 Label elements:



Danger.

Causes serious eye damage.

Harmful if swallowed.

Prevention

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves, protective clothing and eye protection or face protection.

Response

IF SWALLOWED: Call a Poison center or doctor if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER or doctor.

Disposal

Dispose of contents and container in accordance with local, regional, national and international regulations.

2.3 Other hazards:

Caution: This fertilizer contains Boron, Copper, Manganese, Molybdenum and Zinc and should be used only as recommended. It may prove harmful when misused.

Contains nitrate salts, if swallowed may cause methemoglobinemia. Children under 1 year of age are most susceptible to methemoglobinemia from ingestion of nitrate.

Exposures to airborne dusts may cause irritation in the nose, throat and respiratory tract.

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Section 3: Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>Classification</u>
Nitric acid, ammonium calcium salt	15245-12-2	80 - 95	Acute tox. 4; H302 Eye damage 1; H318

Section 4: First-Aid Measures

4.1 Description of first-aid measures:

Inhalation: If symptoms develop move victim to fresh air and keep comfortable for breathing. Get immediate medical attention if you feel unwell or are concerned.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor for treatment advice.

Skin Contact: Rinse skin with plenty of water. If irritation persists, get medical advice. Take off contaminated clothing and wash it before re-use.

Ingestion: If swallowed, call a POISON CENTER or doctor immediately. Do not induce vomiting. If vomiting occurs naturally lay person on their side in the recovery position. Rinse mouth.

4.2 Most important symptoms and effects, acute and delayed:

Inhalation: Exposure to airborne dusts may cause irritation to the respiratory tract.

Eye Contact: Causes serious eye irritation. May cause burns.

Skin Contact: Prolonged contact may cause irritation.

Ingestion: Swallowing may cause nausea, vomiting, chills and gastro-intestinal discomfort. Delayed effect from swallowing large amounts may result in the formation of methemoglobin: Symptoms include blue lips, fingernails and skin, dizziness and headache.

4.3 Indication of any immediate medical attention and special treatment needed:

In case of accidental swallowing by a child: Get immediate medical attention. Take container, label or product name with you when seeking medical attention.

4.4 Medical Conditions Aggravated by Exposure:

Not available

Section 5: Fire-fighting Measures

5.1 Extinguishing media:

Use extinguishing media appropriate for the surrounding fire. Water spray, appropriate foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the chemical:

Not flammable or combustible.

Combustion may generate irritating fumes containing nitrogen oxides.

If heated to dryness, product residues may contain dry nitrate salts, an oxidizer which can intensify a fire.

If involved in a fire, closed containers may rupture violently.

5.3 Special protective equipment and precautions for firefighters:

Firefighters should wear full protective gear including self-contained breathing apparatus when fighting chemical fires. Any water runoff should be minimized and contained.

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Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Stop the release if you can do it without risk.
Wear appropriate gloves and eye protection.
Do not touch spilled material.
Spillages may be a slipping hazard.

6.2 Environmental precautions:

Prevent large releases from going into drains, sewers and other waterways.

6.3 Methods and material for containment and cleaning up:

Use broom or dry vacuum to collect material for re-use or proper disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Read the label before using.
Keep away from children and domestic animals.
Do not mix with other chemicals.
Do not get in eyes.
Do not swallow.
Do not get on skin or clothing.
Wear rubber gloves and safety glasses.
Do not breathe dusts.
Wash hands after handling.

7.2 Conditions for safe storage:

Keep out of reach of children.
Store in the original container in a dry, cool, dark and secure location.
Keep containers tightly closed when not in use.
Store away from incompatible chemicals including acids, strong bases, strong reducing agents.
Do not contaminate water, food or feed by storage or disposal.
Empty containers may retain harmful product residues; do not re-use containers for food or drink.

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters:

<u>Ingredient</u>	<u>ACGIH® TLV®</u>	<u>Other Exposure Limits</u>
Nitric acid, ammonium calcium salt	None established	None established

8.2 Exposure controls:

Engineering controls: Not normally required if product is used as directed.

8.3 Individual protection measures:

Eye/Face protection: Wear safety glasses with side-shields or chemical splash goggles if contact with the eyes is possible.

Skin protection: Wear protective rubber gloves.

Respiratory protection: In workplaces where airborne dust, spray or mist concentrations cause respiratory tract irritation or eye irritation is experienced, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. wear an approved respirator).

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Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Solid, powder. White to off-white
Odour:	Odourless
Odour threshold:	Not available
pH:	6.26 (1% solution in water)
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable, Not flammable.
Flammability (solid, gas):	Not applicable
Auto-ignition temperature:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Evaporation rate:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	63 lbs/ft ³
Solubility (ies):	4.0 lbs per gallon of water @ 22°C
Partition coefficient (n-octanol/water):	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable

Section 10: Stability and Reactivity

10.1 Reactivity:

Not reactive.

10.2 Chemical stability:

Stable.

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Do not mix with other chemicals.

10.5 Incompatible materials:

Strong acids, strong bases, strong reducing agents.

10.6 Hazardous decomposition products:

None known.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

Likely routes of exposure

Ingestion; Skin contact; Eye contact.

Acute toxicity

Inhalation: Not available

Ingestion: Data not available for the mixture. Based on evidence for Calcium ammonium nitrate, the mixture may be harmful if swallowed.

Skin: Not available

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11.2 Acute toxicity data:

<u>Chemical Name</u>	<u>LD₅₀ Oral</u>	<u>LD₅₀ Dermal</u>	<u>LC₅₀ Inhalation 4-hour exposure</u>
Calcium ammonium nitrate	300 - 2 000 mg/kg (rat)	Not available	Not available

Skin corrosion / irritation

In an acute skin irritation study the material Calcium ammonium nitrate was not irritating to skin.

Serious eye damage / irritation

May cause serious eye irritation. Information for Calcium ammonium nitrate, evidence of corneal injury following was observed in animal tests according to OECD test guidelines.

STOT (Specific Target Organ Toxicity) – Single exposure

Data not available. Contains nitrate salts. Nitrates may be reduced to nitrites by bacteria in the digestive tract. Symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate and respiratory paralysis. Children under 1 year of age are most susceptible to methemoglobinemia from ingestion of nitrates.

Breathing dusts may cause irritation to the respiratory tract.

STOT (Specific Target Organ Toxicity) – Repeated exposure

Data not available

Aspiration hazard

Does not meet criteria for classification for aspiration toxicity.

Sensitization - respiratory and/or skin

Data not available.

Carcinogenicity

This mixture does not contain any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists), OSHA (Occupational Safety and Health Administration) or NTP (National Toxicology Program).

Reproductive toxicity

Data not available

Germ cell mutagenicity

Not known to be mutagenic.

Interactive effects

Data not available

Section 12: Ecological Information

12.1 Toxicity:

Prevent release of this product into natural waterways.

12.2 Persistence and degradability:

Inherently bio-degradable.

12.3 Bioaccumulative potential:

Not applicable

12.4 Mobility in soil:

Data not available

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Section 13: Disposal Considerations

13.1 Disposal methods:

Discard the empty container in household garbage or recycle.
If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with municipal or provincial regulations where they apply.
Contact local authorities for disposal of large quantities of product.

Section 14: Transport Information

14.1 Canada Transportation of Dangerous Goods (TDG) Regulations:

Not regulated

14.2 U.S. Hazardous Materials Regulation (DOT 49CFR):

Not regulated

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Canada

NSNR status: All ingredients are listed on the DSL or are not required to be listed.

USA

TSCA status: All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Section 16: Other Information

Revision date:

April 26, 2018

References and sources for data:

CCOHS Cheminfo
HSDB
NIOSH Pocket Guide
CNESST – Commission des normes, de l'équité, de la santé et de la sécurité du travail

Legend to abbreviations:

ACGIH® – American Conference of Governmental Industrial Hygienists
GHS- Globally Harmonized System for Classification and Labeling.
LD₅₀- Median lethal dose; the dose causing 50 % lethality
OSHA - Occupational Safety and Health Administration
WHMIS – Workplace Hazardous Materials Information System.

Additional information:

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