

SDS DATE 29/03/2017

## SECTION 01 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BLOOM A  
Product type: Flower Enhancer  
Synonyms: N/A  
Product codes: 008  
Product Number: 0002  
Manufacturer: SJ Enterprises Pty Ltd  
Division: Australia  
Address: 7 O'Conner Court, Gepps Cross, South Australia, 5094 Australia  
Emergency phone: +61 8 8359 8732  
Chemtrec phone: 800-424-9300  
Other calls: +61 0430 217 040  
Fax phone: +61 8 83598732  
Chemical name: N/A  
Chemical family: N/A  
Chemical formula: N/A  
Product use: Hydroponic Nutrient  
Prepared by: SJ ENTERPRISES PTY LTD Material Safety Data Sheet

## SECTION 02 - HAZARDS IDENTIFICATION

**Emergency overview:** Calcium Nitrate on it's own is a strong oxidizer; Due to this product only consisting of 5% of this constituent it is important to note that there is only a very minimal chance of this product causing irritation to the skin, eyes and respiratory tract. This product is harmful though if swallowed or long exposure to inhalation.

### Routes of entry:

**Eyes:** May cause irritation, redness and pain.

**Skin:** May cause itching to skin. Symptoms include redness, itching and pain.

**Ingestion:** May cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

**Inhalation:** May cause mild irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

**Acute Health Hazards:** No Information found

**Chronic health hazards:** No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.

**Medical conditions generally aggravated by exposure:** No Data found.

### Carcinogenicity

**Osha:** N/A **ACGIH:** N/A **NTP:** N/A **IARC:** N/A

**Other:** N/A

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

**INGREDIENT: Calcium Nitrate  $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$**

**Potassium Nitrate  $\text{KNO}_3$**

**Magnesium EDTA  $\text{C}_{10}\text{H}_{12}\text{MgN}_2\text{Na}_2\text{O}_{8.4}\text{H}_2\text{O}$**

| <u>CAS NO.</u> | <u>% WT</u>  | <u>% VOL</u> | <u>SARA 313 REPORTABLE</u> |
|----------------|--------------|--------------|----------------------------|
| 10124-37-5     | 1.98%(w/v)   |              |                            |
| 7757-79-1      | 0.08%(w/v)   |              |                            |
| 14402-88-1     | 0.0372%(w/v) |              |                            |

Potassium Sulfate 7778-80-5

|                        | <u>ppm</u>          | <u>mg/m3</u>        |
|------------------------|---------------------|---------------------|
| SHA PEL-TWA: N/A       | $1.98 \times 10^6$  | $19.12 \times 10^6$ |
| OSHA PEL STEL : N/A    | $0.85 \times 10^6$  | $3.51 \times 10^6$  |
| OSHA PEL CEILING: N/A  | $0.037 \times 10^6$ | $0.65 \times 10^6$  |
| ACGIH TLV-TWA: N/A     |                     |                     |
| ACGIH TLV STEL: N/A    |                     |                     |
| ACGIH TLV CEILING: N/A |                     |                     |

## SECTION 04 - FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**SKIN:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

**INGESTION:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**INHALATION:** Remove to fresh air. Get medical attention for any breathing difficulty.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Refer to MSDS

## SECTION 05 - FIRE FIGHTING MEASURES

**Flammable limits in air, Upper:** N/A

**(% By volume) Lower:** N/A

**Flash point:** N/A - F: C:

**Method used:** N/A

**Autoignition temperature:** N/A - F: C:

NFPA Hazard Classification

**Health:** N/A Flammability: N/A Reactivity: N/A

**Other:** N/A

HMIS HAZARD CLASSIFICATION

**Health:** N/A Flammability: N/A Reactivity: N/A

**Protection:** N/A

**Extinguishing media:** Use any means suitable for extinguishing surrounding fire.

**Special fire fighting procedures:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

**Unusual fire and explosion hazards:** Not combustible, but Calcium Nitrate is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. This can only occur if there is residual in empty containers.

**Hazardous decomposition products:** No data found

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## SECTION 07 - HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

The shelf life of Cyco liquid products will depend on storing them correctly, stored in a cool, dark location the unopened product has a shelf life of approx. 2 years, once the seal is broken the product has a shelf life of approx. 3 months. Always replace the cap as soon as possible after pouring to extend the life of the product. Do not store for long periods above 40°C or below - 10°C

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** N/A

**Ventilation :** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Respiratory protection:** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Eye protection:** Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

**Skin protection:** Wear protective gloves and clean body-covering clothing.

**Other protective clothing or equipment:** N/A

**Work hygienic practices:** Please refer to State And Federal regulations

**Exposure guidelines:** No exposure guidelines have been set for this product.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Orange, Tan Colour

**Odour:** Sweet smell

**Physical state:** liquid

**ph as supplied:** 5.7 ph

**ph (other):**

**Boiling point:** f: 212 c: 100

**Melting point:** f: n/a c: n/a

**Freezing point:** f: 32 c: 0

**Vapor pressure (mmHg):**

@

F: N/A

C:

**Vapor density (air = 1):** n/a

@ f: c:

**Specific gravity (h<sub>2</sub>o = 1):** Ca(NO<sub>3</sub>)<sub>2</sub>.4H<sub>2</sub>O: 0.25 KNO<sub>3</sub>:0.93 Mg EDTA: 3.73X10<sup>3</sup>

@ f: 77 c:25

**Evaporation rate:** basis (=1):

**Solubility in water:**

**Percent solids by weight:**

**Percent volatile:**

by wt/ by vol @ f: c:

**Volatile organic compounds (voc):**

**With water:** lbs/gal

**Without water:** lbs/gal

**Molecular weight:** Ca(NO<sub>3</sub>)<sub>2</sub>.4H<sub>2</sub>O: 236.064 KNO<sub>3</sub>:101 Mg EDTA: 430

**Viscosity:**

@ f: c:

## SECTION 10 - STABILITY AND REACTIVITY

**Stability:** stable under ordinary conditions of use and storage

**Conditions to avoid (stability):** (Residual Only) Exposure to heat may result in build-up of dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper.

**Incompatibility (material to avoid):** no incompatibility data found

**Hazardous decomposition or by-products:** Oxides of nitrogen.

**Hazardous polymerization:** no hazardous polymerization data found.

**Conditions to avoid (polymerization):** n/a

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Calcium Nitrate :** Oral rat LD50: 3900 mg/kg. Irritation eye rabbit 500mg/24H severe.

**Potassium Nitrate:** Oral rat LD50: 3750 mg/kg. Investigated as a mutagen, reproductive effector.

**Magnesium EDTA:** No LD50/LC50 information found relating to normal routes of occupational exposure.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecological information:** No Data Found

### Ecotoxicity:

Calcium Nitrate : The LC50/96-hour values for fish are over 100 mg/l.

**Environmental Fate:** No Data found

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**RCRA** hazard class: N/A

**Section 13 Notes:** Do not use this container for any other purpose. Triple rinse containers, then offer the container for recycling, reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with your local government regulations.

## SECTION 14 - TRANSPORT INFORMATION

**U.S. department of transportation not regulated**

Proper shipping name:

Hazard class:

**ID number:**

**Packing group:**

**Label statement:**

**Water transportation not regulated**

**Proper shipping name:**

Hazard class:  
TD number:  
Packing group:  
Label statements:

**Air transportation not regulated**

Proper shipping name:  
Hazard class:  
ID number:  
Packing group:  
Label statements:

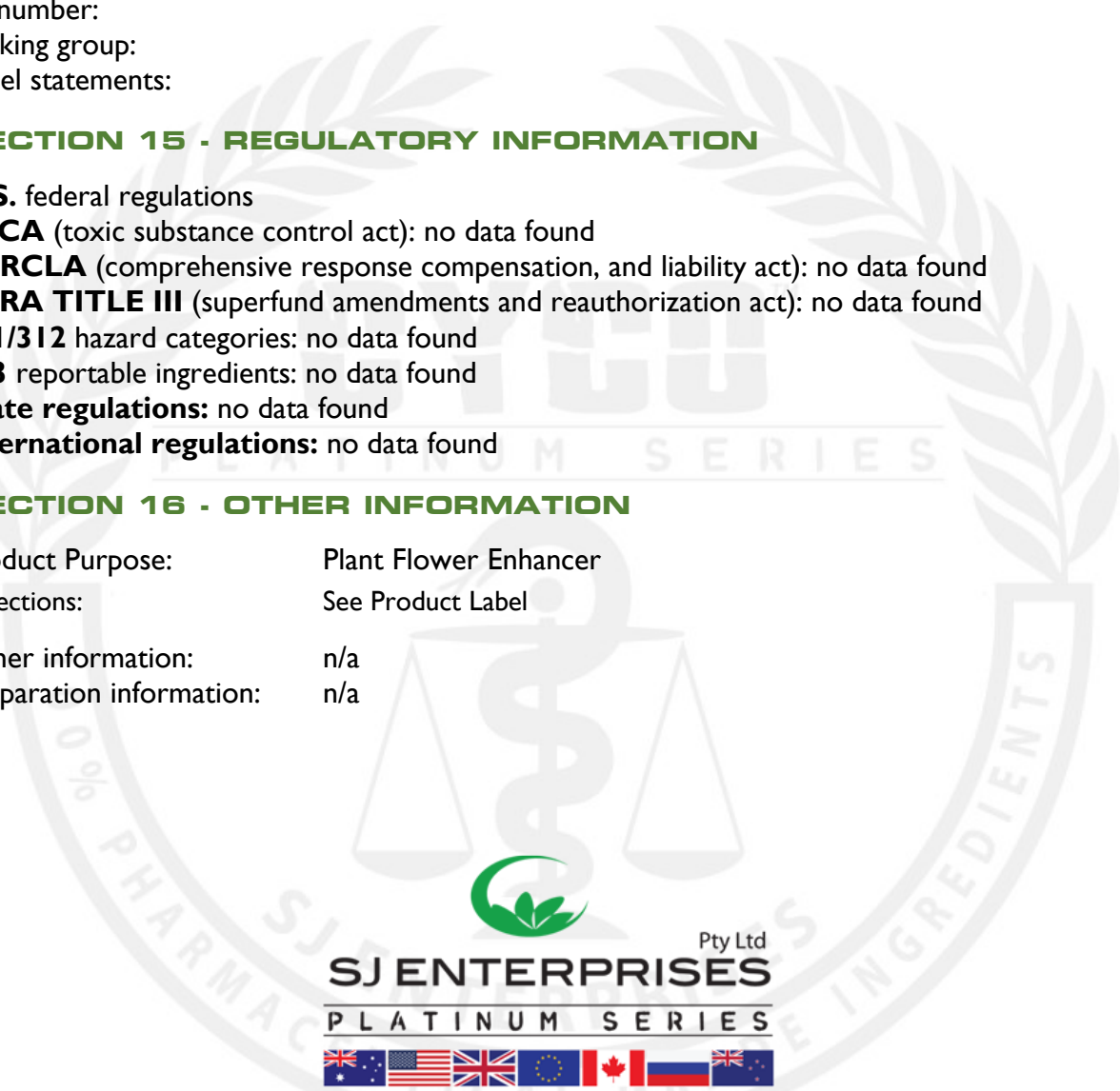
**SECTION 15 - REGULATORY INFORMATION**

**U.S. federal regulations**

**TSCA** (toxic substance control act): no data found  
**CERCLA** (comprehensive response compensation, and liability act): no data found  
**SARA TITLE III** (superfund amendments and reauthorization act): no data found  
**311/312** hazard categories: no data found  
**313** reportable ingredients: no data found  
**State regulations:** no data found  
**International regulations:** no data found

**SECTION 16 - OTHER INFORMATION**

Product Purpose: Plant Flower Enhancer  
Directions: See Product Label  
Other information: n/a  
Preparation information: n/a



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