

This document is prepared in compliance with OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 12-0-0 Ca-Fortify

General Use: Fertilizer

Product Description: Ammonium nitrate-based fertilizer SDS

MANUFACTURER

Company Name: Beanstalk Ag

Address : PO Box 6623, Santa Rosa, CA 95406

Telephone No. : (707) 819-0187

EMERGENCY TELEPHONE NUMBER:

: (707) 819-0187

2. SUMMARY OF HAZARDS AND TOXICITIES

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS

Flammable solid	Not classified
Phyrophoric solid	Not classified
Oxidizing solid	Not classified
Corrosive to metal	Not classified

HEALTH HAZARDS

Acute toxicity(oral)	Not classified
Acute toxicity(skin)	Not applicable
Acute toxicity(inhalation)	Not classified
Dermal corrosion /irritation	Classification 2
Serious eye damage / irritancy	Classification 2A
Respiratory sensitivity	Not applicable
Skin sensitivity	Not applicable
Germ cell mutagenicity	Not classified
Carcinogenicity	Not applicable
Reproductive toxicity	Not classified
Specific target organ systemic toxicity (Single exposure)	Classification 2 (blood), Classification 3 (respiratory tract)
Specific target organ systemic toxicity (Repeated exposure)	Not classified
Aspiration hazard	Not applicable

ENVIRONMENTAL HAZARDS

Acute hazardous to the aquatic environmental :Not classified
Chronic hazardous to the aquatic environmental :Not classified

GHS LABEL ELEMENT

PICTOGRAM



SIGNAL WORD : Warning

HAZARD STATEMENT(s):

Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation
Harmful if inhaled.

PRECAUTIONARY STATEMENT(s):

Avoid breathing dust, fume, gas, mist, vapors or spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.
Wear eye protection/face protection.
IF SWALLOWED: Call a **POISON CENTRE/doctor** if you feel unwell.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. **IF**
IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do, continue rinsing.
Call a **POISON CENTRE/doctor** if you feel unwell.
Rinse mouth.
If skin irritation occurs: Get medical advice/attention. **If eye**
irritation persists: Get medical advice/attention. Take off
contaminated clothing and wash it before reuse.
Dispose of contents/container in accordance with local, regional,
national and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a compound fertilizer coated with polyolefin type resin.

Chemical Composition (Typical Analysis)

Chemical Name	wt%	CAS No.	Chemical Formula
Calcium Nitrate	65-75	10124-37-5	Ca(NO ₃) ₂
Ammonium Nitrate	NMT10	6484-52-2	NH ₄ NO ₃
Calcium Sulfate	NMT10	7778-18-9	CaSO ₄
Polyolefin *1	NMT10	-	-
Talc	NMT10	14807-96-6	3MgO·4SiO ₂ · H ₂ O

*1 Polyolefin contains polyethylene etc.

4. FIRST AID MEASURES

INHALATION : In case of accidental inhalation of fumes from overheating or combustion, move to fresh air. If needed, seek medical attention.

EYE : In case of dust or granule in the eyes, flush with plenty of running water.

SKIN : Wash thoroughly with soap and water.

INGESTION : If conscious, give plenty of water to drink and provoke vomiting.
If needed, call a doctor.

PROTECTION TO FIRST-AIDS : Not Applicable

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Material is essentially non-flammable.

EXTINGUISHING MEDIA: Water **FIRE FIGHTING INSTRUCTIONS:**

Remove the product from combustible materials as it may support combustion of them. When heated to decomposition, it emits toxic fume of NO_x, SO_x and ammonia. Remove the product from the source of fire.

If it is difficult to move, flush with plenty of water.

Do not enter fire area without self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: Sweep up and shovel into suitable containers for disposal.
Avoid contact with combustibles. Reuse as fertilizer, if possible.

WATER SPILL: Keep out of water supplies, lakes, ponds, streams and rivers.

7. HANDLING AND STORAGE

HANDLING: Handle in accordance with good industrial hygiene and safety practice.
Avoid mixing with fuels, other combustible materials and strong alkaline agents.

STORAGE: The product is hygroscopic and should therefore be stored in a dry place.
Store away from reducing agents. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: Not Established

EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering Controls: No specific controls are needed.

Personal protection: Normally not required. In extremely dusty conditions,
appropriate protective equipment is recommended.

Respiratory Protection	: Dust mask with particle filter
Hand Protection	: Rubber gloves
Eye Protection	: Safety goggles
Skin Protection	: Normal clean work clothing

Environmental Exposure Controls Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, Grey granules
Odor	Odorless
pH	Not Applicable
Melting point/Melting range	Not Applicable
Decomposition temperature	Not Available
Flash point	Not Available
Flammability Relative	None
Density	1.0 g/cm³ (Bulk Density)

Respiratory sensitivity :Not classified No data

Skin sensitivity : Not classified No data

Gem cell mutagenicity :Not classified No data

Carcinogenicity :Not classified No data

Reproductive toxicity :Not classified No data

Specific target organ systemic toxicity (Single exposure) :

Classification 2 (blood), Classification 3 (respiratory tract) Have the following harmful information with the following components.

<Ammonium nitrate>

Because the observation of methemoglobinemia in the rat oral administration test was reported by RRECS (2005), and it was reported that methemoglobin or abnormal hemoglobin are produced in the ICSC (J) (2001), HSDB (2005), HSFS (1998) and SITTIG (4th, 2002), it is determined that the blood is the target organ, it was classified as Classification 2. In addition, since there are descriptions of irritating to the respiratory tract by ICSC (J) (2001), HSDB (2005), HSFS (1998) and SITTIG (4th, 2002), it was classified as Classification 3.

Specific target organ systemic toxicity (Repeated exposure) : Not classified.

Aspiration hazard :Not classified No data

ENVIRONMENTAL HAZARD

Acute hazardous to the aquatic environmental: Not classified

Have the following harmful information with the following components.

<Ammonium nitrate>

Because of fish 96-hour LC50 = 5657mg / L26 of the (rainbow trout)) data, it was not classified.

Chronic hazardous to the aquatic environmental: Not classified

Have the following harmful information with the following components.

<Ammonium nitrate>

Since the acute toxicity is out of classification (acute toxicity is low), it was not classified.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Large amounts of product released to water systems will be harmful to aquatic plant and animal life.

PERSISTENCE AND DEGRADABILITY:

**Fertilizer granules are soluble in water and biodegradable.
Coating materials are persistent and not biodegradable.**

BIOACCUMULATIVE POTENTIAL: Not available.

13. DISPOSAL CONSIDERATIONS

**Safe disposal methods: Uncontaminated product may be reused as fertilizer. Classify waste under applicable federal, state and local regulations.
Do not dump this product into sewers, on the ground or into any body of water.**

14. TRANSPORT INFORMATION:

Since the situations may be difference case by case and the description below may not always apply, please consult 49 CFR or other regulations for dangerous goods for additional description requirement (e.g. technical name) and mode- or quantity- specific shipping requirements.

DOT: Land -Not regulated

Air -Not regulated

Vessel - Not regulated

IMDG: -Not regulated

ICO/IATA: -Not regulated

TDG: - Not regulated

15. REGULATORY INFORMATION OSHA

STATUS: 29 CFR 1910.1200.

**TSCA STATUS: see 2. COMPOSIT ION/INFORMATION ON INGREDIENTS
CERCLA REPORTABLE QUANTITY (40CFR117,302): None SARA TITLE III**

SECTION 302 (40 CFR 355) :None

SECTION 311/312 (40 CFR 370)

- 1. Immediate (Acute) Health Effect ; No**
- 2. Delayed (Chronic) Health Effect; No**
- 3. Fire Hazard; No**
- 4. Sudden Release of Pressure Hazard; No**
- 5. Reactivity Hazard; No**

SECTION 313 (40 CFR 372) :None