Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

**Alaska Marijuana Control Board**

# Operating Plan Supplemental
# Form MJ-04: Marijuana Cultivation Facility

### What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana cultivation facility license and must accompany the **Marijuana Establishment Operating Plan (Form MJ-01)**, per 3 AAC 306.020(b)(11). Applicants should review **Chapter 306: Article 4** of the **Alaska Administrative Code.** This form will be used to document how an applicant intends to meet the requirements of those regulations. If your business has a formal operating plan, you may include a copy of that operating plan with your application, but all fields of this form must still be completed per 3 AAC 306.020 and 3 AAC 306.420(2).

### What additional information is required for cultivation facilities?

Applicants must identify how the proposed establishment will comply with applicable regulations regarding the following:

- Prohibitions
- Cultivation plan
- Odor control
- Testing procedure and protocols
- Security

**This form must be submitted to AMCO's main office before any marijuana cultivation facility license application will be considered complete.**

## Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

| | | | | | |
|---|---|---|---|---|---|
| **Licensee:** | MATANUSKA CANNABIS COMPANY, LLC. | **License Number:** | 14199 | | |
| **License Type:** | LIMITED MARIJUANA CULTIVATION FACILITY | | | | |
| **Doing Business As:** | MATANUSKA CANNABIS COMPANY, LLC. | | | | |
| **Premises Address:** | 3550 S. OLD GLENN HIGHWAY | | | | |
| **City:** | PALMER | **State:** | ALASKA | **ZIP:** | 99645 |



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# Operating Plan Supplemental
# Form MJ-04: Marijuana Cultivation Facility

## Section 2 – Prohibitions

Applicants should review 3 AAC 306.405 – 3 AAC 306.410 and be able to answer "Agree" to all items below.

| The marijuana cultivation facility will not: | Agree | Disagree |
|---|---|---|
| **Sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation** | ■ | ☐ |
| **Allow any person, including a licensee, employee, or agent, to consume marijuana or marijuana product on its licenses premises or within 20 feet of the exterior of any building or outdoor cultivation facility** | ■ | ☐ |
| **Treat or otherwise adulterate marijuna with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana** | ■ | ☐ |

## Section 3 – Cultivation Plan

Review the requirements under 3 AAC 306.420, and identify how the proposed premises will meet the listed requirements.

**Describe the size of the space(s) the marijuana cultivation facility intends to be under cultivation, including dimensions and overall square footage. Provide your calculations below:**

Total size to be under cultivation is: 448 square feet. There are a total of two rooms that will be under various stages of cultivation.

Bloom Room No. 1:

20' x 27' = 540 sq. ft. of which 288 sq ft of bloom tables will be utilized.

Veg/Boom Room No. 2:

20' x 26' = 520 sq ft of which 96 sq ft of room will be used for bloom and 64 sq ft of veg and clone will be used.

Total under cultivation: 448 sq ft.



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# Operating Plan Supplemental
# Form MJ-04: Marijuana Cultivation Facility

**Describe the marijuana cultivation facility's growing medium(s) to be used:**

Cocogro Pure Earth by Readygro

See Ex. A.

**Describe the marijuana cultivation facility's fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used:**

. B-52 Advanced Nutrients;
. Bud Bloom by Advanced Nutrients;
. Bud Candy Bloom Enhancer by Advance Nutrients;
. Bud Blood by Advanced Nutrients;
. Sensi-Gro Part A by Advanced Nutrients;
. Sensi-Gro Part B by Advanced Nutrients.

No CO2 will be used.

All fertilizers will be applied by hand application.

No additional chemicals will be used.

See Ex. B.

**Describe the marijuana cultivation facility's irrigation and waste water systems to be used:**

Plants will be watered by means of hand watering, water can, or later by means of a reservoir fed, timer controlled, metered drip emitter style system. The irrigation system to be used in the proposed cultivation facility is designed to minimize waste. All excess run off from plants will be collected in collection containers, reused and any remainder will be allowed to evaporate.

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# Operating Plan Supplemental
# Form MJ-04: Marijuana Cultivation Facility

**Describe the marijuana cultivation facility's waste disposal arrangements:**

All marijuana waste will be mixed and mulched with household garbage consisting of paper and food products in a 50/50% ratio and made unusable. Once this is done, the mulched material will be reused again in home gardens etc. The Palmer area landfill is also willing to take the mulched product once the material has been rendered unusable per statute.

## Section 4 – Odor Control

Review the requirements under 3 AAC 306.430, and identify how the proposed premises will meet the listed requirement.

**Describe the odor control method(s) to be used and how the marijuana cultivation facility will ensure that any marijuana at the facility does not emit an odor that is detectable by the public from outside the facility:**

Canister style, activated carbon filters will be utilized in conjunction with ducted fans within the proposed cultivation facility to prevent any marijuana odor from being detected by the public. Ozone generators may be utilized if determined necessary near exits to mitigate any unwanted smell from exiting the facility that may/could exist.

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## Operating Plan Supplemental

# Form MJ-04: Marijuana Cultivation Facility

## Section 5 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.455 and 3 AAC 306.465, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the item below.

| **I understand and agree that:** | Agree | Disagree |
|---|---|---|
| The board will or the director shall from time to time require the marijuana cultivation facility to provide samples of the growing medium, soil amendments, fertilizers, crop production aids, pesticides, or water for random compliance checks | ☑ | ☐ |

**Describe the testing procedure and protocols the marijuana cultivation facility will follow:**

Upon notification that the board or the director require samples for random compliance checks of the proposed facility, a licensee or an authorized agent of the proposed facility will notify an independent testing laboratory (of the states' choice if applicable) to send a representative to collect the required samples. This way, a chain of custody is established, and the possibility of unintentional contamination due to improper sample collection practices is minimized.

All marijuana product batches will be tested for a battery of state required impurities and/or contaminants by a state licensed lab in accordance with 3 AAC 306.455. The facility will collect random samples from homogeneous batches of individual strains of bud or flower in the amount required by the selected testing facility. Harvested marijuana will be segregated in five pound lots. While results are pending, batches will be "quarantined" until it is deemed acceptable by the testing facility.

We will further select homogeneous samples from our cultivation facility for random testing during our growing cycles in order to ensure the highest of quality of standards are met.



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## Operating Plan Supplemental

# Form MJ-04: Marijuana Cultivation Facility

## Section 6 – Security

Review the requirements under 3 AAC 306.430 and 3 AAC 306.470 – 3 AAC 306.475, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the two items below.

| **The marijuana cultivation facility applicant has:** | Agree | Disagree |
|---|---|---|
| Read and understands and agrees to the packaging of marijuana requirements under 3 AAC 306.470 | ☑ | ☐ |
| Read and understands and agrees to the labeling of marijuana requirements under 3 AAC 306.475 | ☑ | ☐ |

**Restricted Access Area (3 AAC 306.430):** See Ex. C, Labels & Logos

| | Yes | No |
|---|---|---|
| Will the marijuana cultivation facility include outdoor production? | ☐ | ☑ |

**If "Yes", describe the outdoor structure(s) or the expanse of open or clear ground fully enclosed by a physical barrier:**

n/a

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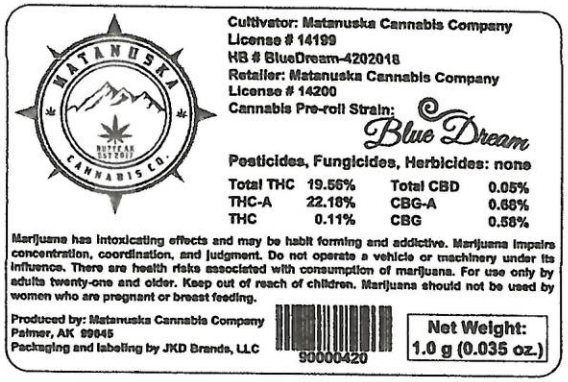
# Matanuska Cannabis Company
# Label Proofs – J-tubes



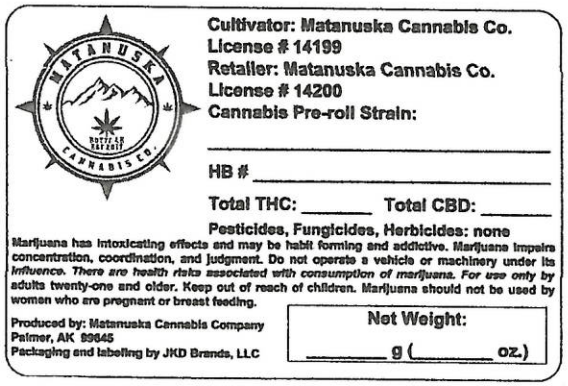




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EXHIBIT C
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# Matanuska Cannabis Company
## Label Proofs – Pop-top/PD&T Vials







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EXHIBIT C
PAGE 2 OF 3

# Matanuska Cannabis Company
# Label Proofs – Bags

**Cultivator: Matanuska Cannabis Co.**
**License # 14199**
**Retailer: Matanuska Cannabis Co.**
**License # 14200**
**HB # BlueDream-4202018**
**Strain: Blue Dream**

**Cannabinoid Profile:**

| | | | |
|---|---|---|---|
| Total THC | 16.39% | Total CBD | 0.04% |
| THC | 0.57% | CBD-A | 0.05% |
| THC-A | 18.04% | CBG-A | 0.49% |

**Total Terpenes: 2.31%**

**Pesticides, Fungicides, Herbicides: none**

**Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of reach of children. Marijuana should not be used by women who are pregnant or breast feeding.**

**Produced by: Matanuska Cannabis Company**
**Palmer, AK 99645**
**Packaging and labeling by JKD Brands, LLC**

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## Operating Plan Supplemental

# Form MJ-04: Marijuana Cultivation Facility

**Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility cannot be observed by the public from outside the facility:**

The proposed facility is designed to be a completely indoor limited cultivation facility. There will be no marijuana visible to the public. All windows will be covered as required so no marijuana is ever visible to the public.

**I certify that as a marijuana cultivation facility, I will submit monthly reports to the Department of Revenue and pay the excise tax required under AS 43.61.010 and 43.61.020 on all marijuana sold or provided as a sample to a marijuana establishment, as required under 3 AAC 306.480.**

I declare under penalty of perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

Signature of licensee

Chad Ragsdale
Printed name

Subscribed and sworn to before me this 5th day of October, 20 17.

LANCE C. WELLS NOTARY PUBLIC STATE OF ALASKA

Notary Public in and for the State of Alaska.

My commission expires: 6/14/2019



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## Operating Plan Supplemental

# Form MJ-04: Marijuana Cultivation Facility

**(Additional Space as Needed):**

n/a.



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# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION

| | |
|---|---|
| PRODUCT NAME: | Readygro<br>Cocogro<br>Pure Earth |
| OTHER NAME: | Plant Propagation products made out of Coir pith/Coco substrate |
| UN NUMBER: | None |
| DANGEROUS GOOD CLASS: | Not hazardous |
| SECONDORY RISK: | None |
| HAZCHEM CODE: | Not hazardous |
| POISONS SCHEDULE: | None allocated |
| USES: | Used for horticulture & landscape purposes |

PHYSICAL DESCRIPTION/PROPERTIES:

| | |
|---|---|
| APPEARANCE: | Brown natural organic substance |
| ODOUR: | Odorless |
| pH: | 5 to 6.5 |
| FLAMMABILITY: | Not flammable |
| BOILING POINT: | Not applicable |
| MELTING POINT: | Not applicable |
| VAPOUR PRESSURE: | Not applicable |
| FLASH POINT: | Not applicable |
| SPECIFIC GRAVITY (WATER=1): | Varies according to composition & moisture content |
| MOLECULAR WEIGHT: | Not applicable |
| SOLUBILITY IN WATER: | Not soluble |
| INGRIEDIENTS: | RHP certified coir fiber pith & coconut husk chips/crush |

EXHIBIT A
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## 2. HEALTH HAZARD INFORMATION

CHRONIC & ACUTE HEALTH EFFECTS:

SWALLOWED: Unlikely under normal conditions. No known hazard.

EYE CONTACT: May cause minor eye irritation& slight redness of eyes.

SKIN CONTACT: No known hazard. (Applies to unused coco substrate)

INHALED: May cause slight irritation with very high concentration

FIRST AID:

SWALLOWED: Give water to drink. Seek medical attention if any abdominal symptoms.

EYE: Flush eyes thoroughly for ten minutes with plenty of water. If irritation persists seek medical attention.

SKIN: Wash thoroughly with mild soap & water.

INHALED: Remove to fresh air.

FIRST-AID FACILITIES: Eye wash station, running water, soap & sink

ADVICE TO DOCTOR: Treat symptomatically.

## 4.SAFE HANDLING INFORMATIONS:

STORAGE/TRANSPORT:

Store in cool dry place. No special transport requirements are necessary.

SPILLS & DISPOSALS:

Sweep up & dispose accordingly. Waste materials can be disposed of as trade waste in accordance with local authority guidelines.

FIRE/EXPLOSIN HAZARD: Not applicable

SMOKING:

Botanicare recommends that all work areas should be none smoking areas.

**CONTACT POINT:**

FURTHER INFORMATIONS MAY BE OBTAINED FROM,

Botanicare

6858 W. Chicago St #3

Chandler, AZ 85226

TELEPHONE: 480.777.2000

FAX: 480.777.2015

WEB: www.botanicare.com

## 3. PRECAUTIONS FOR USE:

CONDITIONS TO AVOID: No data available.

PERSONAL PROTECTION: None.

SPECIAL FIRE FIGHTING PROCEDURES: None

FLAMMABILITY: None

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IMPORTANT NOTICE:

This Material Safety Data Sheet (MSDS) is issued Botanicare As such, the information contain here must not be altered, deleted or added to. Botanicare will issue a new MSDS when there is a change in product specifications.

Botanicare will not accept any responsibility for any changes made to its MSDS in content by any other persons or organization.

**DISCLAIMER**

**The data & recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof Botanicare, assumes no responsibility for the injury to customers or third party proximity cause by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet.**

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# MATERIAL SAFETY DATA SHEET – 9 SECTIONS

## SECTION 1 – PRODUCT INFORMATION

| | |
|---|---|
| Product B-52 | WHMIS Classification Not Regulated |
| Company Name Advanced Nutrients | |
| Address #109 - 31063 Wheel Ave | City Abbotsford |
| Postal Code V2T 6H1 | Emergency Telephone 1 877 604 8637 |

## SECTION 2 – HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENTS | % | CAS NUMBER | LD50 OF INGREDIENT | LC50 OF INGREDIENT |
|---|---|---|---|---|
| Non Hazardous | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## SECTION 3 – PHYSICAL DATA

| | | | |
|---|---|---|---|
| Physical State Liquid | Odor and Appearance Dark liquid, Thiamine odor | | pH 5.4 |
| Specific Gravity 1.09 | Vapour Density (air = 1) ND | Vapour Pressure (mmHg) ND | Evaporation Rate ND |
| Boiling Point 105 C | Freezing Point - 3 C | Odor Threshold (ppm) | Conductivity |

## SECTION 4 – FIRE AND EXPLOSION DATA

| | | |
|---|---|---|
| Flammability ☐ Yes ☒ No | If yes, under which conditions? | |
| Means of Extinction Use extinguishing media suitable for surrounding fire | | |
| Flashpoint © | UFL (Vol %) | LFL (vol %) |
| Autoignition Temperature © | Explosion Risk | |
| Hazardous Combustion Products ND | | |

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EXHIBIT B
PAGE 1 OF 11

## SECTION 5 – REACTIVITY DATA

| | | |
|---|---|---|
| Chemical Stability | ☒ Yes ☐ No | If no, under which conditions? |
| Incompatability with substances | ☐ Yes ☒ No | If yes, which ones? |
| Hazardous decomposition products | | |

## SECTION 6 – TOXICOLOGICAL PROPERTIES

| | |
|---|---|
| Route of Entry | ☐ Skin ☐ Eye Contact ☐ Inhalation ☐ Ingestion |
| Effects of Acute Exposure | Non Toxic |
| Effects of Chronic Exposure | |
| Exposure Limits | |
| Carcinogenicity (If yes, explain) | ☐ Yes ☒ No |
| Reproductive Toxicity (If yes, explain) | ☐ Yes ☒ No |

## SECTION 7 – PREVENTIVE MEASURES

| | |
|---|---|
| Personal Protective Equipment | ☐ Gloves ☐ Respirator ☐ Eye ☐ Clothing |
| Leak and Spill Procedure | Treat as any water based spill |
| Handling Procedures | No special equipment required |
| Storage Requirements | Do not expose to temperature extremes |
| Shipping Information | Not regulated |

## SECTION 8 – FIRST AID MEASURES

| | |
|---|---|
| Inhalation | |
| Ingestion | Administer water to conscious victim. Seek medical attention |
| Skin Contact | |
| Eye Contact | Flush eyes thoroughly with water |

## SECTION 9 – PREPARATION INFORMATION

| | | |
|---|---|---|
| Prepared by LAB | Phone Number 604 504 3458 | Preparation Date May 2006 |

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Advanced Nutrients

Date Revised : 18th March 2009

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bud Blood
MANUFACTURED BY: Advanced Nutrients U.S. LLC,
1625 Heritage Way
Woodland, WA 98674 USA
Product Information Telephone Number: (604) 854-6793 (9:00-5:00pm PST)
Fax Number: (604) 854-4371
www.advancednutrients.com
**24 HOUR TRANSPORTATION EMERGENCY NUMBER: Advanced Nutrients (604)-835-8088 U.S. & CANADA INTERNATIONAL**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

DESCRIPTION CAS NUMBER WEIGHT PERCENT EXPOSURE LIMITS
Potassium Nitrate Non-hazardous materials per N/A Balance N/A
OSHA UN1486
N/E – None Established
N/A – Not Applicable

Thiamine Hydrochloride
Non-hazardous materials per N/A Balance N/A
OSHA UN1486
N/E – None Established
N/A – Not Applicable

## 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Red Powder/Thiamene odour.
EYE CONTACT: Irritation upon direct contact.
SKIN CONTACT: None (Irritation or possible sensitization with certain individuals).
INGESTION: Non toxic (administer water to conscious victim).
INHALATION: Irritation may occur but non toxic
CHRONIC: Not established.

## 4. FIRST AID MEASURES

EYE CONTACT: Flush immediately with clean water. Seek immediate medical attention.
SKIN CONTACT: Wash affected areas with soap and water.
INGESTION: Non toxic (administer water to conscious victim).
INHALATION: Irritation may occur but non toxic

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES**
FLASHPOINT: None METHOD USED: Not applicable
**FLAMMABLE LIMITS:** LFL: Not applicable UFL: Not applicable
EXTINGUISHING MEDIA: Powder-based product. Non-flammable
FIRE & EXPLOSION HAZARDS: None.
SPECIAL FIRE FIGHTING PROCEDURES: None (non-flammable)

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**. Avoid discharging powder directly into a sewer or surface waters.
**WASTE DISPOSAL METHOD: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2.** The wastes can be disposed of through a licensed waste disposal company.

## 7. HANDLING AND STORAGE:

All products are pre-packaged and can stored under normal warehouse guidelines

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## 8. SPECIAL PROTECTION INFORMATION

NOTE: The product itself does not produce hazardous fumes or vapors. Consequently, no special ventilation or respiratory protection is required under normal operating conditions.
SPECIAL VENTILATION: Not normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: No data.
VAPOR PRESSURE: No data.
VAPOR DENSITY: No data.
SOLUBILITY IN WATER: Complete.
APPEARANCE & ODOR: Tan powder-protein odour.

SPECIFIC GRAVITY: No data.
VOLATILE BY VOLUME: None.
EVAPORATION RATE: No data.

## 10. STABILITY AND REACTIVITY

STABILITY: Stable.
INCOMPATIBILITY None.
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Refer to Section 3

## 12. ECOLOGICAL INFORMATION

Information not available.

## 13. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Transport, storage and disposal of hazardous waste must be carried out by a licensed facility or waste hauler.

## 14. TRANSPORT INFORMATION

**D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:**
Potassium Nitrate 5.1 UN 1486 PG:III
**DOT Classification:** Thiamine Hydrochloride not classified

## 15. REGULATORY INFORMATION

Not on the Sara 302 list of reportable quantities

## 16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION CODES (NFPA):
HEALTH: 3 FLAMMABILITY: 0
REACTIVITY: 0
HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):
HEALTH: 3 FLAMMABILITY: 0
REACTIVITY: 0 PERSONAL PROTECTION: C
The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.
NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Nutrients U.S., LLC. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Advanced Nutrients U.S., LLC. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR

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PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

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Advanced Nutrients

# Material Safety Data Sheet

# Advanced Nutrients – Bud Candy

## SECTION 1. MATERIAL IDENTIFICATION

**Product Name:** Advanced Nutrients Bud Candy Bloom Enhancer

**Manufactured By:** Advanced Nutrients U.S. LLC, 1625 Heritage Way, Woodland, WA 98674 USA. Tel: (604) 854-6793 (9:00-5:00 PM PST) Fax: (604) 854-4371 www.advancednutrients.com

**24 Hour Transportation Emergency Number:** Advanced Nutrients (604) 835-8088 U.S.A, Canada, International.

**MSDS Prepared By:** Lab

**Date Prepared:** May, 2009

**Date Last Revised:** July 7th, 2011

## SECTION 2. COMPOSITION/INFORMATION OF INGREDIENTS

**Ingredients:** The chemical identity of the compounds and the exact proportions used in the mixture are a proprietary trade secret and are believed to be non-toxic.

## SECTION 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Clear, transparent, thick liquid. For personal safety, avoid any unnecessary prolonged exposure to the chemical substance and ensure adequate and prompt removal from skin, eyes or clothing if the contact was made.

### Potential Health Effects

**Route of Exposure:** Ingestion; skin contact; eye contact.

**Ingestion:** Minimal ingestion hazard.

**Skin Contact:** Not considered to be a skin irritant.

**Eye Contact:** Can cause irritation, redness, tearing and pain.

**Inhalation:** Not considered a respiratory tract irritant or an inhalation hazard.

**Effects of Long Term (Chronic) Exposure:** Unknown.



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**Carcinogenicity:** Not a carcinogen.

**Reproductive Toxicity:** Not a reproductive hazard.

**Mutagenicity:** Not a mutagen.

## SECTION 4. FIRST AID MEASURES

### First Aid Procedures

**Inhalation:** Move victim to fresh air. Call a Poison Centre or a doctor if the victim feels unwell.

**Skin Contact:** Wash the affected area with lukewarm, soapy water until the product is sufficiently removed. If skin irritation or a rash occurs, see a doctor. Thoroughly clean clothing, shoes and leather goods before reuse.

**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye. If irritation or pain persists, see a doctor or a physician.

**Ingestion:** Have victim rinse mouth with water. Call a Poison Centre or doctor if the victim feels unwell.

## SECTION 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Not flammable.

**Suitable Extinguishing Media:** Any media suitable for extinguishing a surrounding fire.

**Protective Equipment and Precautions for Firefighters:** Evacuate the area. Approach the fire from upwind to avoid hazardous vapours or gases. Keep the containers cool to avoid bursting. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, flammable or an explosive atmosphere. Firefighters may enter the area if a self-contained breathing apparatus (SCBA) and a full face piece is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Prevent entry of undiluted product into sewers, streams, dikes, surface or groundwater. Consult local authorities.



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**Clean Up Procedures:** Ventilate area. Keep out unnecessary or unprotected personnel. Wipe up the spill with absorbent material and wash with water.

## SECTION 7. HANDLING AND STORAGE

**Handling:** Avoid ingestion, skin contact, eye contact, inhalation or unnecessary direct contact with product.

**Storage:** Keep in a closed container in a temperature controlled, well ventilated environment, out of direct sunlight or freezing.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Control:** General ventilation is usually adequate.

**Administrative Control:** Avoid unnecessary direct contact with the product.

**Respiratory Protection:** Not normally required if the product is used as directed.

**Eye/Face Protection:** Do not get in eyes. Wear chemical safety goggles and a face shield if splashing hazard exists. Contact lenses pose a special hazard. Soft lenses may absorb irritants, and all contact lenses concentrate irritants. Particles may adhere to contact lenses and cause corneal damage.

**Skin Protection:** Avoid skin contact. Wear gloves when handling the product directly.

**Other Personal Protection Data:** Do NOT smoke in work areas. Wash the hands thoroughly after handling the material.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Appearance:** Clear viscous liquid.

**Odor:** Sweet and aromatic.

**Boiling Point:** Not available.

**Freezing Point/Viscosity:** Unknown.

**pH:** Not Available.

**Specific Gravity:** Not Available.



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**Solubility in Water:** Complete.

## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Normally Stable.

**Conditions to Avoid:** Freezing temperatures. Unnecessary contact with skin, eyes or ingestion.

**Incompatibilities:** None.

**Hazardous Decomposition Products:** None.

**Hazardous Polymerization:** Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

Not believed to be toxic.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Information not available.

**Environmental Fate:** Not expected to be significant.

**Environmental Degradation:** Unknown.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** Disposal of all waste must be done in accordance with municipal, provincial and federal regulations.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

## SECTION 14. TRANSPORT INFORMATION

**Shipping Information:** Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

**Special Shipping Information:** Not Applicable.

## SECTION 15. REGULATORY INFORMATION

**U.S TSCA Inventory Status:** Exempt.



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## SECTION 16. OTHER INFORMATION

The data here is for hazard communication to our employees, our customers and their employees and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety Data Sheet) may be duplicated or the data transcribed to an alternative form.

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**Note:** The information contained herein is provided in good faith and is believed to be correct as of the date of hereof. However, Advanced Nutrients U.S., LLC., makes no representation as to the comprehensiveness or accuracy of the information provided. It is expected that individuals receiving the information will exercise their independent judgement in determining the appropriateness for a particular period. Accordingly, Advanced Nutrients U.S., LLC., will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.



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Advanced Nutrients

Date Revised : 18th March 2009

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bud Blood
MANUFACTURED BY: Advanced Nutrients U.S. LLC,
1625 Heritage Way
Woodland, WA 98674 USA
Product Information Telephone Number: (604) 854-6793 (9:00-5:00pm PST)
Fax Number: (604) 854-4371
www.advancednutrients.com
**24 HOUR TRANSPORTATION EMERGENCY NUMBER: Advanced Nutrients (604)-835-8088 U.S. & CANADA INTERNATIONAL**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

DESCRIPTION CAS NUMBER WEIGHT PERCENT EXPOSURE LIMITS
Potassium Nitrate Non-hazardous materials per N/A Balance N/A
OSHA UN1486
N/E – None Established
N/A – Not Applicable

Thiamine Hydrochloride
Non-hazardous materials per N/A Balance N/A
OSHA UN1486
N/E – None Established
N/A – Not Applicable

## 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Red Powder/Thiamene odour.
EYE CONTACT: Irritation upon direct contact.
SKIN CONTACT: None (Irritation or possible sensitization with certain individuals).
INGESTION: Non toxic (administer water to conscious victim).
INHALATION: Irritation may occur but non toxic
CHRONIC: Not established.

## 4. FIRST AID MEASURES

EYE CONTACT: Flush immediately with clean water. Seek immediate medical attention.
SKIN CONTACT: Wash affected areas with soap and water.
INGESTION: Non toxic (administer water to conscious victim).
INHALATION: Irritation may occur but non toxic

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES**
FLASHPOINT: None METHOD USED: Not applicable
**FLAMMABLE LIMITS:** LFL: Not applicable UFL: Not applicable
EXTINGUISHING MEDIA: Powder-based product. Non-flammable
FIRE & EXPLOSION HAZARDS: None.
SPECIAL FIRE FIGHTING PROCEDURES: None (non-flammable)

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**. Avoid discharging powder directly into a sewer or surface waters.
**WASTE DISPOSAL METHOD: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2.** The wastes can be disposed of through a licensed waste disposal company.

## 7. HANDLING AND STORAGE:

All products are pre-packaged and can stored under normal warehouse guidelines

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## 8. SPECIAL PROTECTION INFORMATION

NOTE: The product itself does not produce hazardous fumes or vapors. Consequently, no special ventilation or respiratory protection is required under normal operating conditions.
SPECIAL VENTILATION: Not normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: No data.
VAPOR PRESSURE: No data.
VAPOR DENSITY: No data.
SOLUBILITY IN WATER: Complete.
APPEARANCE & ODOR: Tan powder-protein odour.

SPECIFIC GRAVITY: No data.
VOLATILE BY VOLUME: None.
EVAPORATION RATE: No data.

## 10. STABILITY AND REACTIVITY

STABILITY: Stable.
INCOMPATIBILITY None.
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Refer to Section 3

## 12. ECOLOGICAL INFORMATION

Information not available.

## 13. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Transport, storage and disposal of hazardous waste must be carried out by a licensed facility or waste hauler.

## 14. TRANSPORT INFORMATION

**D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:**
Potassium Nitrate 5.1 UN 1486 PG:III
**DOT Classification:** Thiamine Hydrochloride not classified

## 15. REGULATORY INFORMATION

Not on the Sara 302 list of reportable quantities

## 16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION CODES (NFPA):
HEALTH: 3 FLAMMABILITY: 0
REACTIVITY: 0
HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):
HEALTH: 3 FLAMMABILITY: 0
REACTIVITY: 0 PERSONAL PROTECTION: C
The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.
NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Nutrients U.S., LLC. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Advanced Nutrients U.S., LLC. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR

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PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

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**Sensi Grow (Part A)** 3.7-0-0

Putting The Dynamic Duo to Work for You

Like any baseball pitcher or football quarterback will tell you, there has to be at least two people working together if you want to get things done fast and right. There's no winning pitch without a catcher, no touchdown pass without a great receiver. And when you walk down the aisle in front of family and friends, it's two people joining together as one to become a whole unit that wins in this world. This principal of duality, and the power of a dynamic duo, will be yours when you put it to work for you today.

**GUARANTEED ANALYSIS:**

| | |
|---|---|
| Total Nitrogen (N) | 3.70% |
| 0.10% Ammoniacal Nitrogen (N) | |
| 1.90% Nitrate Nitrogen (N) | |
| 1.70% L. Other Water Soluble Nitrogen (N) | |
| Calcium (Ca) | 2.50% |
| Iron (Fe) | 0.12% |
| Manganese (Mn) | 0.05% |
| Molybdenum (Mo) | 0.00096% |

Derived From: Ammo Chelate, Calcium Chelate, Calcium Nitrate, Cobalt Chelate, Cobalt EDTA, Copper Chelate, Copper EDTA, Folic Acid, Boric Acid, Iron Chelate, Iron DPTA, Iron EDDHA, Iron EDTA, Manganese EDTA, Manganese Chelate, Molybdenum Chelate, Nitrogen Chelate, Sodium Molybdate, Urea, Zinc Chelate, Zinc EDTA.

**Sensi Grow (Part B)** 2.5-2.2-5.7

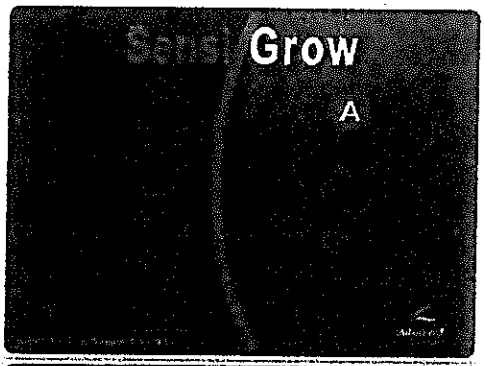
Putting The Dynamic Duo to Work for You

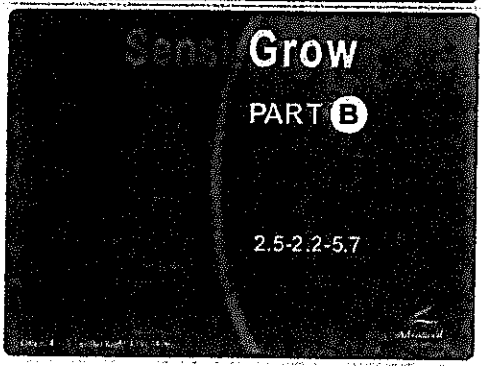
Like any baseball pitcher or football quarterback will tell you, there has to be at least two people working together if you want to get things done fast and right. There's no winning pitch without a catcher, no touchdown pass without a great receiver. And when you walk down the aisle in front of family and friends, it's two people joining together as one to become a whole unit that wins in this world. This principal of duality, and the power of a dynamic duo, will be yours when you put it to work for you today.

**GUARANTEED ANALYSIS:**

| | |
|---|---|
| Total Nitrogen (N) | 2.5% |
| 0.1% Ammoniacal Nitrogen (N) | |
| 1.0% Nitrate Nitrogen (N) | |
| 1.4% Other Water Soluble Nitrogen (N) | |
| Available Phosphate ($P_2O_5$) | 2.2% |
| Soluble Potash ($K_2O$) | 5.7% |
| Magnesium (Mg) | 1.0% |

Derived From: Monoammonium Phosphate, Monoammonium Phosphate, Monopotassium Phosphate, Magnesium Chelate, Magnesium Nitrate, Magnesium Sulfate, Magnesium Phosphate, Phosphoric Chelate, Potassium Chelate, Potassium Nitrate, Potassium Sulfate, Urea.

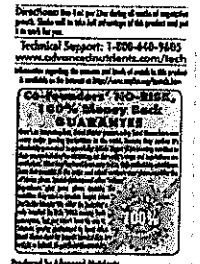
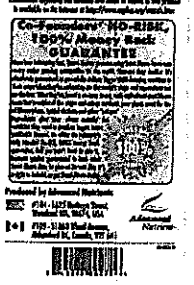



Directions: Use 1 oz per liter during all weeks of vegetative growth. Make sure to take full advantage of this product and put it to work for you.

Technical Support: 1-800-440-9605

www.advancednutrients.com/tech

Co-Founders' NO-RISK, 100% Money Back GUARANTEE

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