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:	HEMPCO, LLC.	**License Number:**	12618		
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Hempco, LLC.				
Premises Address:	43280 Kenai Spur Highway				
City:	Nikiski	**State:**	ALASKA	**ZIP:**	99635

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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:

Propagation Rooms

Propagation Rooms Dimensions :

-Nome 15' 9" x 9' 9" 150
-Kotzebue 18" 3" x 15' 5" 245

Area Total 395 SQ FT.

Cultivation Rooms Dimensions :

-Bethel 32' 5" x 28' 5" 745
-Anchorage 29' 6" x 28' 7" 844
-Fairbanks 29' 5" x 28' 7" 840
-Deadhorse 19' 4" x 14' 1" 272
-Barrow 19' 4" x 14' 11" 288
-Wainwright 15' 7" x 19' 4" 302
-Point Hope 15' 4" x 13' 7" 180

Area Total 3471 SQ FT.

Total Area Under Cultivation 3866 SQ FT.

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

Soils will consist of:

Sphagnum Peat moss
Perlite
Vermiculite
Dolomitic and Calcitic Limestone
Mycorrhizae

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

Advanced Nutrients Part A and B consisting of
Urea
Nitrogen
Urea Nitrogen
Ammoniacal Nitrogen
Nitrate nitrogen
Phosphorus
Phosphoric Acid
Potassium
Soluble Potash
Potassium Nitrate
Potassium Phosphate
Potassium Sulfate
Dipotassium Phosphate
Monopotassium Phospate
Ammonium Phosphate
Magnesium
Magnesium Nitrate
Magnesium Sulfate
Magnesium Phosphate
Calcium
Calcium Nitrate
Calcium AminoAcid Complex
Manganese
Manganese EDTA
Chelated Magnesium
Magnesium EDTA
Magnesium Nitrate
Sulphur
Boron

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 by means of a reservoir fed, timer controlled metered drip emitter style watering device. The hand water and/or drip emitter 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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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 either reused again if possible in home gardens etc. or disposed of via Alaska Waste, or within the landfill, but only after giving AMCO three days notice of intent to do same.

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. This will keep all smell/odor from being detected outside of the premises.

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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. Marijuana selected for testing will be quarantined until such time as testing results come back form 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.

This is a pesticide free facility.

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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):

	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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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:

All windows will be covered so they cannot be seen through. No marijuana will be visible to the public. All marijuana will be handled on the inside of the building and none will be visible to the public. All vehicles that would be picking up marijuana or transporting marijuana will be loaded inside of the facility from inside of the garage for safety and security concerns and to keep all marijuana form being 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

Jenny L. Foster
Printed name

Subscribed and sworn to before me this 17 day of August, 2017.

LANCE C. WELLS NOTARY PUBLIC STATE OF ALASKA

Notary Public in and for the State of Alaska.

My commission expires: 6/18/19

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(Additional Space as Needed):

Page 3, Question 2 cont'd response:

Iron
Iron EDDHA
Iron EDTA
Zinc
Zinc EDTA
Monoammonium phosphate Monopotassium
Potassium nitrate
Potassium sulfate
Surfactant (Alkyl Phenol Ethoxylate
B-1 Vitamin
Silicon
Mycorrhizae
Molybdenum
Epsom Salts
Ammonium Molybdate
Calcium nitrate
Seaweed Extract (Ascophyllum Nodosum)
Protein Hydrolysate
Ph balancers
Potassium hydroxide.
Phosphoric acid.
Glucose
D-Xylose
D-Ribose
D-Galactose
Xanthum gum

See Ex. A Safety Data Sheets.
All will be hand administered to the plants under cultivation.

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Safety Data Sheet

Advanced Nutrients

Advanced Nutrients Sensi Grow Part "A" pH-Perfect Base Nutrient

Section 1. Identification

GHS product identifier	:	Advanced Nutrients Sensi Grow Part "A" pH-Perfect Base Nutrient
Other means of identification	:	Product Code: 6201 Formula Code: 001C
Recommended use of the chemical and restriction on use	:	A plant nutrient used to obtain faster growth and larger yields in all kinds of growing media. Not to be used as food or feed in any forms
Supplier/Manufacturer's details	:	Advanced Nutrients Ltd. 109-31063 Wheel Ave. Abbotsford, BC Canada V2T6H1 Tel: (604) 854-6793 Fax: (604) 854-4371 Email: info@advancednutrients.com www.advancednutrients.com
Emergency Phone number	:	24 Hour Transportation Emergency Number - Advanced Nutrients (604) 835-8988 U.S.A, Canada, International

Section 2. Hazard Identification

GHS classification of the substance/mixture	:	Neither the mixture nor its major constituents are listed in (a) the CLP/GHS database (Table 3.1 and 3.2 of Annex VI to CLP) and (b) OSHA Laws & Regulations (29 CFR - 1910 Subpart Z: Table Z-1 to Z-3) as hazardous materials.
GHS label elements		
Pictogram symbol	:	Not applicable
Signal word	:	Not applicable
Hazard statement	:	Not hazardous
Precautionary statement		
General	:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container/label at hand.
Prevention	:	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	:	If skin or eye irritation occurs get medical advice/attention. If in eyes: rinse cautiously with water for several minutes.
Storage	:	Store in cool and dry place.
Disposal	:	Dispose of contents and container in accordance with local, regional, national and international regulations.

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EXHIBIT A
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Other hazards (not covered the GHS	:	Calcium nitrate and Magnesium nitrate are used in the manufacture of this product. The US National Fire Protection Association (NFPA) Code 430 (1995) has classified Magnesium nitrate as oxidizing material in Class 1, which do not cause spontaneous ignition when it comes in contact with combustible materials.

Section 3. Composition/Information on Ingredients

Substance/Mixture	:	Mixture
Chemical identity	:	Not applicable
Common name/synonym	:	Not available
CAS number and other unique identifiers	:	Not applicable
Impurities and stabilizing additives	:	Not applicable

Ingredient name	CAS number	% (w/w)	Classification according to OSHA Law and Regulations
Calcium Nitrate	10124-37-5	10-20	Not classified as hazardous
Magnesium Nitrate	10377-60-3	10-20	Not classified as hazardous

The chemical identity of the remaining ingredients and their exact proportions used in the mixture are a proprietary trade secret (protected by the Confidential Business Information – CBI) and, within the current knowledge of the manufacturer and in the concentration applicable, they are not hazardous to health or the environment.

Section 4. First-aid Measures

Description of necessary measures

Self-protection of first-aiders	:	Pay attention to self-protection. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
General information	:	Remove contaminated clothing immediately. In case of accident or unwellness, seek medical attention immediately.
Inhalation	:	Move victim to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe.
Skin contact	:	Wash contaminated skin with plenty of water and soap. Wash contaminated clothing and clean shoes before reuse. Get medical attention if adverse health effects persist or are

		severe.
Eye contact	:	Immediately flush eyes with plenty of water with the eyelids open. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.
Ingestion	:	If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed:

Inhalation	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	:	Not known health effect due to skin contact.
Eye contact	:	If in eyes, it causes eye irritation
Ingestion	:	If swallowed, it irritates mouth, throat and stomach.

Indication of immediate medical attention and special treatment needed:

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

See also toxicological information (Section 11)

Section 5. Fire-fighting Methods

Suitable extinguishing media	:	Any media suitable for extinguishing a surrounding fire.
Unsuitable extinguishing media	:	Not known
Specific hazards arising from the chemical	:	In a fire, hazardous thermal decomposition products may be produced including nitrogen oxides and metal oxide/oxides.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
Special protective precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the

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	area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency personnel	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Methods and materials for containment and clean up

Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in

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	container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7. Handling and Storage

Precautions for safe handling		
Advice on general hygiene	:	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.
Protective measures	:	Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage and any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection

Control parameters		
Occupational exposure limits	:	Not applicable according to OSHA's mandatory PELs in the Z-Tables
Biological limit values	:	None
Appropriate engineering controls	:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the

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		requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before breaks and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Personal Protective Equipment (PPE)	:	PPE should be used in conjunction with other control measures, including engineering controls, ventilation and isolation. See Section 5 (Fire-fighting measures) of the SDS for specific fire/chemical PPE advice.
Eye/face protection	:	Do not get in eyes. Wear chemical safety goggles and a face shield if splashing hazard exists.
Skin protection	:	Avoid skin contact. Wear gloves when handling the product directly.
Respiratory protection	:	Not normally required if the product is used as directed. Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary
Thermal hazards	:	None

Section 9. Physical and Chemical Properties

Appearance (physical state)	:	Liquid, Deep burgundy, opaque
Odor	:	Mineral
Odor threshold	:	Not available
pH	:	5.08 – 5.59
Melting point/Freezing point	:	Not available/-9.0°C
Initial boiling point and boiling range	:	100°C (212°F)
Flash point	:	Not available
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not available
Upper/lower flammability or explosive limits	:	Not available
Vapor pressure	:	Not available
Vapor density	:	Not available

Relative density	:	1.146 – 1.164 g/ml
Solubility (ies)	:	Complete in water
Partition coefficient: n-octanol/water	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	Not available

Section 10. Stability and reactivity

Reactivity	:	Not available
Chemical stability	:	Normally Stable
Possibility of hazardous reactions	:	No hazardous reactions or instability may occur when it contact with combustible materials.
Conditions to avoid	:	Freezing temperatures
Incompatible materials	:	Reducing materials, organic materials, metals and acids.
Hazardous decomposition products	:	None under normal conditions of storage and use

Section 11. Toxicological Information

Acute toxicity

Ingredient	Toxicity	Species	Dose*	Remark
Calcium nitrate	Oral LD50	Rat	300 - 2000 mg/kg bw	Harmful if swallowed
	Inhalation LC50	No data available	No data available	No data available
	Dermal LD50	No data available	No data available	No data available

*- Obtained from ECHA (Updated Feb. 25, 2015)

Skin corrosion/irritation:	:	No data available
Serious eye damage/ irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	No data available
STOT-single exposure	:	No data available
STOT-repeated exposure	:	No data available
Aspiration hazard	:	No data available

The Likely routes of exposure, health effects and Symptoms related to the physical, chemical and toxicological characteristics

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Eye contact	:	If in eyes, it causes eye irritation. The symptoms may include irritation, watering and redness.
Inhalation	:	There is no known health effect.
Skin contact	:	There is no known health effect.
Ingestion	:	It is harmful if ingested. Irritating to mouth, throat and stomach. There is no known health effect.

Delayed and immediate effects and also chronic effects from short or long term exposure

Short-term exposure		
Potential immediate effects	:	Not known
Potential delayed effects	:	Not known
Long-term exposure		
Potential immediate effects	:	Not known
Potential delayed effects	:	Not known
Potential Chronic health effect	:	Not known

Numerical measures of toxicity

Acute toxicity estimate		
Oral	:	No data available
Inhalation of vapors	:	No data available

Section 12. Ecological Information

Toxicity

Ingredient name	Result*	Species	Exposure	Reference
Calcium nitrate	Acute LC50 1378 mg/l Fresh water	Fish - Labeo boga	96 hours	IUCLID 5
	Acute LC50 490 mg/l Fresh water	Aquatic invertebrate - Daphnia	48 hours	IUCLID 5
	Acute EC50 > 1700 mg/l Salt water	Aquatic plants - Heterosigma akashiwo	10 days	IUCLID 5

* Practically non-toxic to aquatic organisms

Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Other adverse effects	:	No known significant effect

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Section 13. Disposal Considerations

Disposal of waste methods	:	Disposal of all waste must be done in accordance with municipal, provincial and federal regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. No sewage disposal!!
Contaminated packaging	:	Empty containers should be recycled or disposed of through an approved waste management facility. Persons conducting disposal, recycling or reclamation activities should follow the information in Section 8 of this SDS.

Section 14. Transport Information

Identification of ingredients according to UN Model Regulations	
UN number	This product is a mixture of ingredients which are not listed as 'Dangerous Goods' in Chapter 3.2 of UN Recommendations on the Transport of Dangerous Goods and/or one or more ingredients are included in the list but their mixture is exempted from the same Regulation based on the Articles 2.0.2.5 (C), 2.0.2.7 and 3.3.1 No. 208.
UN proper shipping name	
Transport hazard class(es)	
Packing group	
Special precaution for user	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk	Not applicable (≤ 1000L-container)

Environmental hazards

Ingredient's name	IMDG	UN	ADR	RID	ADN
Calcium nitrate	No	No	No	No	No
Magnesium nitrate	No	No	No	No	No

Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product in question	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

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Section 16. Other Information

Prepared by	:	Department of Product Development, Advanced Nutrients Ltd., Canada
Date of preparation (d/m/y)	:	24/04/2015
Version	:	2
Date of Revision	:	20/04/2016
Revised Sections	:	Section 14
Key Acronyms	:	
ADN	:	The European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways
ADR	:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
BW	:	Body Weight
IATA	:	International Air Transport Association shipment of Dangerous Goods Regulation
IMDG	:	International Maritime Dangerous Goods code
RID	:	The Regulation concerning the International Carriage of Dangerous Goods by Rail
SDS		Safety Data Sheet

Key Literature References:

Convention concerning International Carriage by Rail (COTIF) Appendix C – Regulation concerning the International Carriage of Dangerous Goods by Rail (RID), with effect from 1 January 2013. Intergovernmental Organisation for International Carriage by Rail (OTIF). Berne, Switzerland, 2012.

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Safety Data Sheet

Advanced Nutrients

Advanced Nutrients Sensi Grow Part "B" pH-Perfect Base Nutrient

Section 1. Identification

GHS product identifier	:	Advanced Nutrients Sensi Grow Part "B" pH-Perfect Base Nutrient
Other means of identification	:	Product Code: 6251 Formula Code: 002B
Recommended use of the chemical and restriction on use	:	A plant nutrient used to obtain faster growth and larger yields in all kinds of growing media. Not to be used as food or feed in any forms
Supplier/Manufacturer's details	:	Advanced Nutrients Ltd. 109-31063 Wheel Ave. Abbotsford, BC Canada V2T6H1 Tel: (604) 854-6793 Fax: (604) 854-4371 Email: info@advancednutrients.com www.advancednutrients.com
Emergency Phone number	:	24 Hour Transportation Emergency Number - Advanced Nutrients (604) 835-8988 U.S.A, Canada, International

Section 2. Hazard Identification

GHS classification of the substance/mixture	:	Neither the mixture nor its major constituents are listed in (a) the CLP/GHS database (Table 3.1 and 3.2 of Annex VI to CLP) and (b) OSHA Laws & Regulations (29 CFR - 1910 Subpart Z: Table Z-1 to Z-3) as hazardous materials.
GHS label elements		
Pictogram symbol	:	Not applicable
Signal word	:	Not applicable
Hazard statement	:	Not hazardous
Precautionary statement		
General	:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	:	If skin or eye irritation occurs get medical advice/attention. If in eyes: rinse cautiously with water for several minutes.
Storage	:	Store in cool and dry place.

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Disposal	:	Dispose of contents and container in accordance with local, regional, national and international regulations.
Other hazards (not covered the GHS	:	Potassium nitrate is used in the manufacture of this product. The US National Fire Protection Association (NFPA) Code 430 (1995) has classified Potassium nitrate as oxidizing material in Class 1, which do not cause spontaneous ignition when it comes in contact with combustible materials.

Section 3. Composition/Information on Ingredients

Substance/Mixture	:	Mixture
Chemical identity	:	Not applicable
Common name/synonym	:	Not available
CAS number and other unique identifiers	:	Not applicable
Impurities and stabilizing additives	:	Not applicable

Ingredient name	CAS number	% (w/w)	Classification according to OSHA Law & Regulations
Potassium Nitrate	7757-79-1	10-30	Not classified as hazardous
Potassium Sulfate	7778-80-5	1-5	Not classified as hazardous
Urea	57-13-6	5-10	Not classified as hazardous

The chemical identity of the remaining ingredients and their exact proportions used in the mixture are a proprietary trade secret (protected by the Confidential Business Information – CBI) and, within the current knowledge of the manufacturer and in the concentration applicable, they are not hazardous to health or the environment.

Section 4. First-aid Measures

Description of necessary measures

Self-protection of first-aiders	:	Pay attention to self-protection. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
General information	:	Remove contaminated clothing immediately. In case of accident or unwellness, seek medical attention immediately.
Inhalation	:	Move victim to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe.

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Skin contact	:	Wash contaminated skin with plenty of water and soap. Wash contaminated clothing and clean shoes before reuse. Get medical attention if adverse health effects persist or are severe.
Eye contact	:	Immediately flush eyes with plenty of water with the eyelids open. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.
Ingestion	:	If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed:

Inhalation	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	:	Not known health effect due to skin contact.
Eye contact	:	If in eyes, it causes eye irritation.
Ingestion	:	If swallowed, it irritates mouth, throat and stomach.

Indication of immediate medical attention and special treatment needed:

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

See also toxicological information (Section 11)

Section 5. Fire-fighting Methods

Suitable extinguishing media	:	Any media suitable for extinguishing a surrounding fire.
Unsuitable extinguishing media	:	Not known
Specific hazards arising from the chemical	:	In a fire, hazardous thermal decomposition products may be produced including nitrogen oxides and metal oxide/oxides.

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Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
Special protective precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency personnel	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Methods and materials for containment and clean up

Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.

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Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7. Handling and Storage

Precautions for safe handling		
Advice on general hygiene	:	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.
Protective measures	:	Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage and any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Section 8. Exposure Controls/Personal Protection

Control parameters		
Occupational exposure limits	:	None
Biological limit values	:	None
Appropriate engineering controls	:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before breaks and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Personal Protective Equipment (PPE)	:	PPE should be used in conjunction with other control measures, including engineering controls, ventilation and isolation. See Section 5 (Fire-fighting measures) of the SDS for specific fire/chemical PPE advice.
Eye/face protection	:	Do not get in eyes. Wear chemical safety goggles and a face shield if splashing hazard exists
Skin protection	:	Avoid skin contact. Wear gloves when handling the product directly
Respiratory protection	:	Not normally required if the product is used as directed. Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary
Thermal hazards	:	None

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Section 9. Physical and Chemical Properties

Appearance (physical state)	:	Liquid, Clear lightly yellow transparent
Odor	:	Mineral
Odor threshold	:	Not available
pH	:	5.11– 5.69
Melting point/Freezing point	:	Not available
Initial boiling point and boiling range	:	100°C (212°F)
Flash point	:	Not available
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not available
Upper/lower flammability or explosive limits	:	Not available
Vapor pressure	:	Not available
Vapor density	:	Not available
Relative density	:	1.143 – 1.190g/ml
Solubility (ies)	:	Complete in water
Partition coefficient: n-octanol/water	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	Not available

Section 10. Stability and reactivity

Reactivity	:	Not available
Chemical stability	:	Normally Stable
Possibility of hazardous reactions	:	Hazardous reactions or instability may occur under certain conditions of storage or use, such as contact with combustible materials which may result risk of causing or intensifying fire
Conditions to avoid	:	Freezing temperatures
Incompatible materials	:	Reducing materials, organic materials, metals and acids.
Hazardous decomposition products	:	None under normal conditions of storage and use

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Section 11. Toxicological Information

Acute toxicity

Ingredient	Toxicity	Species	Dose*	Remark
Potassium nitrate	Oral LD50	Rat	>2000 mg/kg bw	At 60% concentration
	Inhalation LC50	Rat	>0.527 mg/L air	
	Dermal LD50	Rat	>5000 mg/kg bw	
Potassium Sulfate	Oral LD50	Rat	No toxicity	For analog substance (KCl)- 6600 mg/kg bw
	Inhalation LC50	Rat	No toxicity	Not significant for analog substance
	Dermal LD50	Rat	>2000 mg/kg bw	Not toxic
Urea	Oral LD50	Cow	600-1080 mg/kg bw	Lower toxicity
	Inhalation LC50	-	No toxicity	
	Dermal LD50	-	No toxicity	

*- Obtained from ECHA (Updated Feb. 25, 2015)

Skin corrosion/irritation: : Not-irritating to the skin (Potassium nitrate, Potassium sulfate and Urea)

Serious eye damage/irritation : Non-irritant (Potassium nitrate and Potassium sulfate) Mildly irritating to eyes (Urea),

Respiratory or skin sensitization : Non skin sanitizer (Potassium nitrate, Urea)

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No adverse effect (Potassium nitrate and Potassium sulfate), No data available (Urea)

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration hazard: : No data available

The Likely routes of exposure, health effects and Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : If in eyes, it causes eye irritation. The symptoms may include irritation, watering and redness.

Inhalation : There is no known health effect.

Skin contact : There is no known health effect.

Ingestion : It is harmful if ingested. Irritating to mouth, throat and stomach. There is no known health effect

Delayed and immediate effects and also chronic effects from short or long term exposure

Short-term exposure

Potential immediate effects : Not known

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Potential delayed effects	:	Not known
Long-term exposure		
Potential immediate effects	:	Not known
Potential delayed effects	:	Not known
Potential Chronic health effect	:	Not known
Numerical measures of toxicity		
Acute toxicity estimate		
Oral	:	No data available
Inhalation of vapors	:	No data available

Section 12. Ecological Information

Toxicity

Ingredient name	Result	Species	Exposure	Reference
Potassium nitrate	Acute LC50 490 mg/l Fresh water	Aquatic invertebrate - Daphnia	48 hours	IUCLID 5
	Acute LC50 1378 mg/L Fresh water	Fish – Poecilia reticulata	96 hours	ECHA
Potassium Sulfate	Acute LC50 720 mg/l Fresh water	Aquatic invertebrate - Daphnia	48 hours	ECHA
	Acute LC50 680 mg/l Fresh water	Fish- Fathead minnows	96 hours	ECHA
Urea	Acute LC50 > 6810 mg/l Fresh water	Fish – Golden orfe fish	96 hours	ECHA

Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Other adverse effects	:	No known significant effect

Section 13. Disposal Considerations

Disposal of waste methods	:	Disposal of all waste must be done in accordance with municipal, provincial and federal regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. No sewage disposal!!
Contaminated packaging	:	Empty containers should be recycled or disposed of through an approved waste management facility. Persons conducting disposal, recycling or reclamation activities should follow the information in Section 8 of this SDS.

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Section 14. Transport Information

Identification of ingredients according to UN Model Regulations	
UN number	This product is a mixture of ingredients which are not listed as 'Dangerous Goods' in Chapter 3.2 of UN Recommendations on the Transport of Dangerous Goods and/or one or more ingredients are included in the list but their mixture is exempted from the same Regulation based on the Articles 2.0.2.5 (C), 2.0.2.7 and 3.3.1 No. 208.
UN proper shipping name	
Transport hazard class(es)	
Packing group	
Special precaution for user	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk	Not applicable (≤ 1000L-container)

Environmental hazards

Ingredient's name	IMDG	UN	ADR	RID	ADN
Potassium nitrate	No	No	No	No	No

Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product in question	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other Information

Prepared by	:	Department of Product Development, Advanced Nutrients Ltd., Canada
Date of preparation (d/m/y)	:	24/03/2015
Version	:	2
Date of Revision	:	20/04/2016
Revised Sections	:	Section 14
Key Acronyms	:	
ADN	:	The European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways
ADR	:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
BW	:	Body weight
IATA	:	International Air Transport Association shipment of

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		Dangerous Goods Regulation
IMDG	:	International Maritime Dangerous Goods code
RID	:	The Regulation concerning the International Carriage of Dangerous Goods by Rail
SDS		Safety Data Sheet

Key Literature References:

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