Safety Data Sheet

Advanced Nutrients Sensi Bloom Part B Water Soluble Powder Pro Series

Section 1. Identification

GHS product identifier	:	Advanced Nutrients Sensi Bloom Part B Water Soluble Powder Pro Series
Other means of identification	:	Product Code: 6111 Formula Code: 001A
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 8687 Melrose Ave, Suite G320 West Hollywood, CA 90069 Tel: 833.420.2902 Email: info@advancednutrients.com www.advancednutrients.com
Emergency Phone number	:	CHEMTREC Emergency Phone Numbers: 1-800-424-9300 (North America, including Canada and Mexico) CCN 613830 1+703-527-3887 (International) CCN 613830

Section 2. Hazard Identification

GHS classification of the substance/mixture	:	Serious Eye Damage; 1 Acute Toxicity, Oral; 4 Skin Irritation; 3
GHS label elements		
Pictogram symbol	:	
Signal word	:	Danger
Hazard statement	:	Causes serious eye damage. Harmful if swallowed.
Precautionary statement		
General	:	Read label before use. Keep out of reach of children.
Prevention	:	Wear eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Response	:	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center or doctor. If swallowed: call a Poison Center or doctor if you feel unwell. Rinse mouth.
Storage	:	Store in cool and dry place.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national, and international regulations.
Other hazards (not covered by the GHS)	:	Product may form slippery surface when wet.

Section 3. Composition/Information on Ingredients

Substance/Mixture	:	Mixture of substances.
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
Ammonium Calcium Nitrate Double Salt	12245-12-2	72- 78	
Potassium Nitrate	7757-79-1	8 - 15	
Ammonium Nitrate	6484-52-2	8 - 15	

There are no additional ingredients present in concentrations above the relevant cut-off values which in the best knowledge of the supplier would contribute to the hazards of this product.
**Exact concentrations of ingredients deemed to be trade secrets may be withheld in accordance with 29CFR §1910.1200 (i)*

Section 4. First-aid Measures

Description of necessary measures

Self-protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.
General information	:	The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.
Inhalation	:	Remove exposed person to fresh air. Get medical attention if exposed person feels unwell.
Skin contact	:	Remove contaminated clothing. Rinse affected area with water for at least 15 minutes. Get medical attention if skin irritation develops or persists.

Eye contact	:	Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
Ingestion	:	Rise out mouth with water. If material has been swallowed and exposed person is conscious, give small amounts of water to drink. Do not induce vomiting unless advised to do so by medical personnel. Get medical attention if exposed person feels unwell.

Most important symptoms/effects, acute and delayed:

Inhalation	:	Inhaled dusts may cause respiratory tract irritation.
Skin contact	:	May cause skin irritation.
Eye contact	:	Causes serious eye damage. Symptoms include pain, watering, and redness of the eyes.
Ingestion	:	Harmful if swallowed. May cause burns to mouth, throat, and stomach. May cause stomach pain.

Indication of immediate medical attention and special treatment needed:

Notes to physician	:	Treat symptomatically.
Specific treatments	:	If exposed or concerned, seek medical attention.

Section 5. Fire-fighting Methods

Suitable extinguishing media	:	Flooding quantities of water.
Unsuitable extinguishing media	:	Dry chemical, carbon dioxide, or foam.
Specific hazards arising from the chemical	:	Thermal decomposition products include oxides of nitrogen, oxides of carbon, and ammonia. Toxic or corrosive gasses may be produced in a fire.
Special protective equipment for fire-fighters	:	Full turn-out gear with self-contained breathing apparatus (SCBA).
Special protective precautions for fire-fighters	:	Remain upwind of the fire. Avoid breathing dusts or fumes from burning material. Do not attempt to smother the fire with steam or sand. Water spray onto molten material may cause spattering.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	Protective Equipment: Chemical resistant gloves, eye protection, and respiratory protection (if dusty). Emergency Procedures: Evacuate unnecessary personnel. Avoid walking through spilled material. Ventilate area as necessary.
For emergency personnel	:	Protective Equipment: Chemical resistant gloves, eye protection, and respiratory protection (if dusty). Emergency Procedures: Evacuate unnecessary personnel. Avoid walking through spilled material. Ventilate area as necessary.
Environmental precautions	:	Care should be taken to prevent material from entering waterways, sewers, or drains.

Methods and materials for containment and clean up

Small and Large spill	:	Clean up spills immediately. Contain any spills with dikes to prevent from reaching drains or waterways. Scoop or shovel spilled material into an appropriate container. Avoid sweeping in dry conditions to present dust generation. Dispose of contents and container in accordance with local, regional, national & international regulations. Spilled uncontaminated dry material and solutions may be applied to plants or land as a fertilizer according to package directions.

Section 7. Handling and Storage

Precautions for safe handling

Advice on general hygiene	:	Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.
Protective measures	:	Wear eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear respiratory protection if dust is generated.
Conditions for safe storage and any incompatibilities	:	Store in a cool, dry, and well-ventilated place. Keep container tightly closed when not in use. Keep away from combustible and incompatible materials. Combustible materials, reducing materials, organic materials, strong acids, strong bases, halogens, chlorine, chlorinated compounds, and hydrogen peroxides.

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits : Substances whose occupational exposure limits must be monitored in the workplace:

Component	OSHA - PEL	ACGIH - TLV
Ammonium Calcium Nitrate Double Salt	Not Established	Not Established
Potassium Nitrate	Not Established	Not Established
Ammonium Nitrate	Not Established	Not Established

Biological limit values : None.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor, or mist, provide appropriate ventilation controls to minimize worker exposure.

Environmental exposure controls : Not available

Individual protection measures

Hygiene measures : Not available

Personal Protective Equipment (PPE)

Eye/face protection : Chemical goggles should be worn at all times during handling. An eye-wash station is recommended near where this product is handled.

Skin protection : Chemical-resistant gloves, and protective clothing should be worn at all times during handling.

Respiratory protection : Respiratory protection appropriate to the hazard and task performed should be worn if dust, fumes, gas, vapor, or mist is generated or if adequate ventilation is not available.

Thermal hazards : None.

Section 9. Physical and Chemical Properties

Appearance (physical state) : White powder

Odor : Mild odor

Odor threshold : Not available

pH : 4.0 – 6.0 (5% aqueous solution)

Melting point/Freezing point : Not applicable*

Initial boiling point and boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not applicable

Upper/lower flammability or explosive limits : Not applicable

Vapor pressure	:	Not applicable
Vapor density	:	Not applicable
Relative density	:	1055 Kg/m^3 (66 lb/ft^3)
Solubility (ies)	:	Soluble in water
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
Viscosity	:	Not applicable

*Not relevant due to the nature of the product.

Section 10. Stability and Reactivity

Reactivity	:	No hazardous reaction when handled and stored appropriately.
Chemical stability	:	Stable under normal storage and temperature conditions. Decomposes upon heating.
Possibility of hazardous reactions	:	Hazardous polymerization will not occur.
Conditions to avoid	:	Extreme temperatures, open flame, combustible and incompatible materials.
Incompatible materials	:	Combustible materials, reducing materials, organic materials, strong acids, strong bases, halogens, chlorine, chlorinated compounds, and hydrogen peroxides.
Hazardous decomposition products	:	Thermal decomposition products include oxides of nitrogen, oxides of carbon, and ammonia.

Section 11. Toxicological Information

Acute toxicity

Ingredient	Toxicity	Species	Dose*
Ammonium Calcium Nitrate Double Salt	Oral LD50	Rat	500 mg/kg
	Dermal LD50	Rat	>2000 mg/kg
	Eye Irritation	N.A	24-72 hours
Potassium Nitrate	Oral LD50	Rat	>2000 mg/kg
	Inhalation LC50	Rat	>0.527 mg/L (4h)*
	Dermal LD50	Rat	>5000 mg/kg
Ammonium Nitrate	Oral LD50	Rat	2217 mg/kg

Inhalation LC50	Rat	>88.8 mg/L (4h)
Dermal LD50	Rat	>5000 mg/kg

*Maximum achievable concentration.

Skin corrosion/irritation : There is no data available.

Serious eye damage/ irritation : Contact with the eyes: Produces eye damage after contact.

Respiratory or skin sensitization : There is no data available.

Germ cell mutagenicity : There is no data available.

Carcinogenicity : There is no data available.

Reproductive toxicity : There is no data available.

STOT-single exposure : There is no data available.

STOT-repeated exposure : There is no data available.

Aspiration hazard : There is no data available.

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

Eye contact : Causes serious eye damage.

Inhalation : Harmful if swallowed.

Skin contact : May cause skin irritation.

Ingestion : Inhaled dusts may cause respiratory tract irritation.

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

Short-term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long-term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential Chronic health effect : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimate

Oral : There is no data available.

Inhalation of vapors : There is no data available.

Section 12. Ecological Information

Toxicity

Ingredient name		Acute Toxicity	Species	Exposure
Ammonium Calcium Nitrate	LC50	447 mg/L	Freshwater Fish	48 hours
Double Salt	EC50	>100 mg/L	Freshwater Flea	48 hours
	LC50	>100 mg/L	Aquatic Plants	72 hours
Potassium Nitrate	LC50	1378 mg/L	Freshwater Fish	96 hours

	EC50	490 mg/L	Freshwater Flea	48 hours
	EC50	>1700 mg/L	Several algae species	10 days
Ammonium Nitrate		Not classified		

Persistence and degradability	:	Biodegradable
Bio accumulative potential	:	Low
Mobility in soil	:	Low
Other adverse effects	:	Large quantities of fertilizer released into the environment may kill vegetation and fish and cause algae blooms if bodies of water are contaminated.

Section 13. Disposal Considerations

Disposal of waste methods	:	Dispose of contents and container in accordance with local, regional, national, and international regulations. Spilled uncontaminated dry material and solutions may be applied to plants or land as a fertilizer according to package directions. Care should be taken to prevent material from entering waterways, sewers, or drains.
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 not considered hazardous for purposes of transportation.
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

Environmental hazards

Ingredient's name	IMDG	UN	ADR	RID	ADN
Ammonium Calcium Nitrate Double Salt	No	No	No	No	No

Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product in question : Some components of this mixture may be subject to various regulations and reporting requirements. The regulatory status of components listed below does not affect the hazard classification of this mixture listed in Section 2 of this SDS.

	Ammonium Calcium Nitrate Double Salt	Potassium Nitrate	Ammonium Nitrate
TSCA Inventory	Not Listed	Not Listed	Listed
SARA 302/304	Not Listed	Not Listed	Not Listed
SARA 311/312	Acute Health Hazard	Fire Hazard	Acute Health Hazard. Reactive Hazard

Section 16. Other Information

Prepared by : Research and Development Department, Advanced Hemp Inc., Canada
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Revised Sections : Section 1,2 and 3
Key Acronyms:

ACGIH-TLV : American Conference of Governmental Industrial Hygienists Threshold Limit Value
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
OSHA-PEL : Occupational Safety and Health Administration - Permissible Exposure Limits
RID : The Regulation concerning the International Carriage of Dangerous Goods by Rail
SARA : Superfund Amendments and Reauthorization Act
SDS Safety Data Sheet
TSCA : The Toxic Substances Control Act

European Chemical Agency (ECHA) 2015. Information on Chemicals: Registered substances https://echa.europa.eu/information-on-chemicals/registered-substances Online Database. Accessed on October 28, 2018.

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Globally Harmonized System of Classification and Labelling of Chemicals. 5th Edition. ST/SG/AC. 10.30/Rev. 5. United Nations, New York and Geneva, 2013.

Guidance on Labelling and Packaging Regulation in Accordance with EU Regulation 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation). European Chemical Agency, Finland, 2011.

International Maritime Dangerous Goods (IMDG) Code Volume 1 and 2. Incorporating Amendment 33-06, 2006 Edition. International Maritime Organization. London, 2006.

OSH Answers Fact Sheets. Canadian Centre for Occupational Health and Safety. http://www.ccohs.ca/oshanswers/chemicals/oxidizing/oxiziding_hazards.html Accessed on October 08, 2018.

OSHA Law and Regulations. Occupational Safety and Health Standards 29 CFR: 1910. https://www.osha.gov/law-regs.html Accessed on October 08, 2018.

Recommendations on the Transport of Dangerous Goods – Manual of Test and Criteria. 5th Edition. ST/SG/AC. 10/11/Rev. 5. United Nations, New York and Geneva, 2009.

Recommendations on the Transport of Dangerous Goods – Model Regulations. 18th Edition. Volume I and II. ST/SG/AC. 10/1/Rev. 18. UN, New York and Geneva, 2013.

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Official Journal of the European Union L 353/1. 2008.

Others : The data here is for hazard communication to our employees, our customers and their employees and authorized regulatory agencies. For the intended purpose, this SDS 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 of hereof. However, Advanced Hemp Inc. 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 Hemp Inc. 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.