

Athena Pro Bloom

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : Athena Pro Bloom

Product Code(s) : None assigned.

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Hydroponic plant nutrient/fertilizer

Restriction on use: None known

1.3 Details of the supplier of the safety data sheet:

Athena Ag, Inc.

1300 Marsh Landing Parkway #106
Jacksonville Beach, FL, USA
32250

Telephone : (844) 333 1818

1.4 Emergency Telephone Number

: INFOTRAC: (800) 535-5053 (US and Canada); + 001 (352) 323-3500 (International)

Poisons Information Centre

The United Kingdom NHS 111

Austria +436646210336; +4314066898

Belgium +32022649636

Bulgaria +359 2 9301214; +359 29301216

Croatia +38514686910

Cyprus +35722405611

Czech Republic +420 267 082 236; +420 267 082 230; +420 267 082 229

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Estonia +372 794 3500

Finland +358 5052 000; +358 09 4711

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Hungary +36 (1) 476 1135

Iceland +354 543 22 22

Ireland +01 809 2166

Italy

06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza - Roma) 800

183459 (Az. Osp. Univ. Foggia - Foggia)

081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)

06 49978000 (CAV Policlinico "Umberto I" - Roma)

06 3054343 (CAV Policlinico "A. Gemelli" - Roma)

055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)

0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02

66101029 (Osp. Niguarda Ca' Granda - Milano)

800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

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1.5 National Contact

: compliance@athenaag.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Granular blend. Slightly musty odour.

Most important hazards: Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)

Hazardous components which must be listed on the label :None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008. :

Supplemental Hazard Statements:

Not applicable.

2.3 Other hazards

Other hazards which do not result in classification:

Direct skin contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

PBT assessment This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Endocrine disrupting properties: Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Mixture.

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Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
No hazardous ingredients above concentration cut-offs	N/Av	Not applicable.	Present	Not applicable.	not hazardous	Not applicable.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Rinse mouth thoroughly. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Get medical attention immediately.
- Inhalation* : Harmful effects are not expected under normal usage. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
- Skin contact* : Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4.1.2 Self-protection for the first aider

- : Wear eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

- : May cause mild eye irritation. Direct skin contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Water spray, fog (flooding amounts).

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread the fire.
Do not use carbon dioxide or other smothering agents, as they may be ineffective.

5.2 Special hazards arising from the substance or mixture

- : Not considered flammable. Toxic fumes, gases or vapours may evolve on burning. May decompose to form toxic/corrosive gasses if exposed to high heat. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

5.3 Advice for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Contaminated surfaces may be slippery. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Keep people away from and upwind of spill/leak. Contaminated surfaces may be slippery. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- : Do not allow material to contaminate ground water system. Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

- : Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

- : Refer to Section 5 for firefighting instructions. Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Keep container tightly closed when not in use. Wear appropriate protective equipment. Material can create slippery conditions. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Do not ingest. Wash thoroughly after handling. Keep away from incompatibles. Keep away from extreme heat and flame.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in a cool, dry, well ventilated area. Store away from incompatible materials. Keep away from heat and sources of ignition. Keep away from direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store in open or unlabelled containers. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking.

7.3 Specific end use(s)

- : Hydroponic plant nutrient/fertilizer

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	Type	Notes
No hazardous ingredients above concentration cut-offs	None known.	European Union (OEL)	N/Av

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL)

Not available.

Predicted No Effect Concentration (PNEC)

Not available.

8.2 Exposure controls

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Ventilation and engineering measures

: Provide adequate ventilation. If product is processed in a manner that generates dusts or fumes, provide mechanical ventilation to control airborne exposure levels.

Respiratory protection : Not required under normal conditions of handling. If product is processed in a manner that generates dusts or fumes, conduct air monitoring to assess the need for respiratory protection. Advice should be sought from respiratory protection specialists.

Skin protection : Not required under normal conditions of handling. For prolonged or repeated contact use protective gloves. Advice should be sought from glove suppliers.

Eye / face protection : Not required under normal conditions of handling. If product is processed in a manner that generates dusts or fumes, wear as appropriate: Safety glasses with side shields; Goggles

Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing fumes. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

8.3 Environmental exposure controls

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Solid - granular
Colour : Light yellow with micronutrient dots, to light blue with micronutrient dots
Odour : Slightly musty
Odour threshold : Not available.
pH : 3.1 ± 0.5 (at 10% solution)

Flash point : Not available.

Flashpoint (Method) : Not available.

Lower flammable limit (% by vol.)

: Not available.

Upper flammable limit (% by vol.)

: Not available.

Auto-ignition temperature

: Not available.

Decomposition temperature

: Not available.

Oxidizing properties : Not applicable

Explosive properties : Not explosive

Initial boiling point and boiling range

: >500 °C

Melting/Freezing point : ~ 1 °C

Bulk density : $1.31 \text{ g/cm}^3 \pm 0.1 \text{ g/cm}^3$

Solubility in water : Soluble

Other solubility(ies) : Not available.

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Vapour pressure : Not available.

Vapour density : Not available.

Partition coefficient: n-octanol/water

: Not available.

Viscosity : Not available.

Evaporation rate (BuAe = 1)

: Not available.

Particle characteristics : Not available

9.2 Other Information

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: Not available.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid : Avoid contact with incompatible materials. Keep away from extreme heat and flame.

10.5 Incompatible materials

: Acids; Bases; Reducing agents.

10.6 Hazardous decomposition products

: Nitrogen oxides (NOx); Calcium oxides; Ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, this product is not considered an eye damage or irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser. According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

Germ cell mutagenicity : According to the classification criteria of the European Union, the product is not considered as being a germ cell mutagen.

Carcinogenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Reproductive toxicity : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.

STOT-single exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

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STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Routes of exposure : Skin contact; Eye contact

Effects of acute exposure : Skin contact: Direct skin contact may cause slight or mild, transient irritation.

Eye contact: May cause mild eye irritation.

Inhalation: Not an expected route of entry under normal conditions of use.

Ingestion: Not an expected route of entry under normal conditions of use.

Potential Chronic Health Effects

: Not applicable

11.1.1 Acute Toxicity

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	LC₅₀(4hr)	LD₅₀	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
No hazardous ingredients above concentration cut-offs	Not available.	Not available.	Not available.

11.2 Information on other Hazards

: Not applicable

11.2.1 Endocrine disrupting properties :Not applicable

11.2.2 Other hazards : Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : Not expected to be harmful to aquatic organisms. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
No hazardous ingredients above concentration cut-offs	N/Av	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
No hazardous ingredients above concentration cut-offs	N/Av	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
No hazardous ingredients above concentration cut-offs	N/Av	N/Av	N/Av	N/Av

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12.2 Persistence and degradability

: No data is available on the product itself.

12.3 Bioaccumulation potential

: Not expected to bioaccumulate.
See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log K_{ow})</u>	<u>Bioconcentration factor (BCF)</u>
No hazardous ingredients above concentration cut-offs (CAS N/Av)	Not available	Not available.

12.4 Mobility in soil : There is no data available for this product.

12.5 Results of PBT and vPvB assessment

: This preparation contains no substances, at reportable levels, considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

: Not applicable

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information : Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORTATION INFORMATION

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Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ADR/RID	None.	not regulated	not regulated	none	
EU ADR/RID Classification Code					
EU ADR / RID Hazard Identification Number					
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				

14.5 Environmental hazards : The product is not classified as environmentally hazardous. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: Not applicable.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended Not applicable.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: Not applicable.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: Not applicable.

Directive 94/33/EC on the protection of young people at work: Not applicable.

German legislation on water endangering substances AWSV Water hazard class (Germany) 1 - self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend

: AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstract Services
EC50: Effective Concentration 50%
ENCS: Existing and New Chemical Substances
IECSC: Inventory of Existing Chemical Substances
Inh: Inhalation
IOC: Inventory of Chemicals
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NOEC: No observable effect concentration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TWA: Time Weighted Average

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

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not regulated; Expert judgement

H-phrases (full-text)

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:Athena Ag, Inc.
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<http://www.thecompliancecenter.com>**DISCLAIMER**

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