

Athena Cleanse

SDS Revision Date (dd/mm/yyyy): 31/10/2025

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

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

1.1 Product identifier : **Athena Cleanse**

Product Code(s) : None assigned.

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

: Irrigation system cleaner/descaler

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 32250, USA

Telephone : (844) 333 1818

1.4 Emergency Telephone Number

: INFOTRAC: + 001 (352) 323-3500 (International)

1.5 National Contact

: compliance@athenaag.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Clear liquid. Mild chlorine-like 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 dangerous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labeling in accordance with Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram(s)

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

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:

EUH210 - Safety data sheet available on request.

2.3 Other hazards

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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(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

Endocrine disrupting properties: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Mixture

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

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

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

- : None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

- : Symptoms: See section 11.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

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5.2 Special hazards arising from the substance or mixture

: Not flammable.

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. 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Place in clean, dry and labeled containers. Place spilled material into a suitable, labelled container for later disposal (see Section 13).

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. Do not store in open or unlabelled containers. Keep away from incompatibles, refer to section 10.

7.3 Specific end use(s)

: Hydroponic plant nutrient/fertilizer

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Non-hazardous ingredients	N/Av	European Union (OEL)	N/Av
	N/Av	Germany (OEL)	N/Av
	N/Av	Portugal (OEL)	N/Av

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N/Av	Spain (OEL)	N/Av
N/Av	The United Kingdom (WELs)	N/Av

Biological Exposure Indices:

<u>Chemical Name</u>	<u>Biological Exposure Indices</u>	<u>Type</u>
Non-hazardous ingredients		
	N/Av	UK. EH40 Biological Monitoring Guidance Values (BMGVs)
	N/Av	EU
	N/Av	Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4
	N/Av	Portugal
	N/Av	Germany. TRGS 903, BAT List (Biological Limit Values)

Derived No Effect Level (DNEL)
Not available.

Predicted No Effect Concentration (PNEC)
Not available.

8.2 Exposure controls

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. If respiratory protection is warranted, wear NIOSH-approved respirators. 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 : Liquid
Colour : Clear

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Odour : Mild chlorine-like odour

Odour threshold : N/Av

pH : 7.0 ± 1.0

Flash point : N/Av

Flashpoint (Method) : N/Av

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Auto-ignition temperature

: N/Av

Decomposition temperature

: N/Av

Oxidizing properties : None.

Explosive properties : Not explosive

Initial boiling point and boiling range

: >100°C (>212°F)

Melting/Freezing point : ~1°C (~30.2°F)

Relative density : 1.002 ± 0.005

Solubility in water : Fully soluble

Other solubility(ies) : N/Av

Vapour pressure : same as water

Vapour density : N/Av

Partition coefficient: n-octanol/water

: N/Av

Viscosity : same as water

Evaporation rate (BuAe = 1)

: N/Av

Particle characteristics : N/Av

9.2 Other Information

Volatiles (% by weight) : N/Av

Volatile organic Compounds (VOC's)

: N/Av

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

: In the event of fire: Nitrogen oxides (NOx); Calcium oxides; Ammonia

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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, the product is not considered as being an eye irritant.
- Respiratory or skin sensitisation** : Not expected to be a skin or respiratory sensitizer.
- 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.
- 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. :

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

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

Potential Chronic Health Effects

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data : See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Non-hazardous ingredients	N/Av	N/Av	N/Av

11.2 Information on other Hazards

: None known.

11.2.1 Endocrine disrupting properties:
None Known.

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.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Non-hazardous ingredients	N/Av	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Non-hazardous ingredients	N/Av	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Non-hazardous ingredients	N/Av	N/Av	N/Av	None.

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.

Non-hazardous ingredients (CAS N/Av)	N/Av	N/Av
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12.4 Mobility in soil

: No data is available on the product itself.

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

: None known or reported by the manufacturer.

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

: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal	: See Section 7 (Handling and Storage) for further details.
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.				
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.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. 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

: Not applicable.

SECTION 15. REGULATORY INFORMATION

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

: 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.

Restrictions on use

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.

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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

: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EC50: Effective Concentration 50%
EEC: European Economic Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
M-Factor: Multiplication Factor
NOEC: No observable effect concentration
NS: Not specified
OEL: National occupational exposure limits
PEL: Permissible exposure limit
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL: Specific Concentration Limit
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
TLV: Threshold Limit Values
WEL: Workplace Exposure Limit

Information Source

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (dd/mm/yyyy) : 19/03/2024

Revision Date (dd/mm/yyyy) : 31/10/2025 M(SDS) sections updated: 9. PHYSICAL & CHEMICAL PROPERTIES

Regulation and Procedure :

H-phrases (full-text)
None.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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