Athena Ag, Inc.
8760 Younger Creek Drive
Sacramento, CA, USA, 95828
Telephone: (844) 333 1818

Athena Balance
SDS Preparation Date (mm/dd/yyyy): 09/27/2026

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SECTION 1. IDENTIFICATION

Product identifier used on the label
: **Athena Balance**

Other means of identification : None assigned.

Recommended use of the chemical and restrictions on use
: pH adjuster

Chemical family : Mixture

Name, address, and telephone number of the manufacturer:

Athena Ag, Inc.

8760 Younger Creek Drive
Sacramento, CA, USA
95828
Manufacturer's Telephone # : (844) 333 1818

Name, address, and telephone number of the supplier:

Athena Ag, Inc.

436 Atlantic Blvd.
Neptune Beach, FL, USA
32266
Supplier's Telephone # : (844) 333 1818
compliance@athenaag.com
24 Hr. Emergency Tel # : INFOTRAC: (800) 535-5053 (US and Canada); + 001 (352) 323-3500 (International)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear liquid. Odourless.

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.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) and Canadian WHMIS regulations (Hazardous Products Regulations) .
Hazard classification
Eye Damage/Irritation - Category 2B

Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Warning

Hazard statement(s)

Causes eye irritation.

Precautionary statement(s)

Wash hands thoroughly after handling.
Wear eye and face protection.
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.

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Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture.

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Potassium silicate	Silicic acid, Potassium salt	1312-76-1	**15.0 - 25.0**

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

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.

Most important symptoms and effects, both acute and delayed

: Causes eye irritation. Symptoms may include tearing, redness and discomfort. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Direct skin contact may cause slight or mild, transient irritation.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

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

Special hazards arising from the substance or mixture / Conditions of flammability

: 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.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Potassium oxides.

Special protective equipment and precautions 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.

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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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.

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

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. Material can create slippery conditions. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Place in clean, dry and labeled containers.Clean surface thoroughly to remove residual contamination. After cleaning, flush away traces with water. Do not flush into surface water or sanitary sewer system. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).

SECTION 7. HANDLING AND STORAGE

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 hands thoroughly after handling. Keep away from incompatibles. Keep away from extreme heat and flame. Empty containers retain residue and can be dangerous.

Conditions for safe storage : 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. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Incompatible materials : Acids; Bases; Reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Potassium silicate	Not available	Not available	Not available	Not available

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 airbourne 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 proptection. 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 splashing might occur, wear eye protection such as safety glasses with side shields.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid
Colour : Clear.
Odour : Odourless.
Odour threshold : Not available.
pH : 11-12
Melting Point/Freezing point : 0 °C (32°F)

Initial boiling point and boiling range
: 100 °C (212°F) @ 760 mm Hg

Flash point : Not available.
Flashpoint (Method) : Not available.
Evaporation rate (BuAe = 1) : < 1 (butyl acetate = 1)
Flammability : Not considered flammable.

Lower explosion or flammability limit (% by vol.)
: Not available.

Upper explosion or flammability limit (% by vol.)
: Not available.

Oxidizing properties : Not applicable
Explosive properties : Not explosive
Vapour pressure : Not available.
Relative vapour density : Not available.

Relative density / Specific gravity
: 1.04-1.08

Solubility in water : Fully soluble
Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: Not available.

Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Not available.
Particle characteristics : Not available
Volatiles (% by weight) : Not available.

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Volatile organic Compounds (VOC's)
: Not available.

Absolute pressure of container
: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

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

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

Incompatible materials : Acids Bases. Reducing agents.

Hazardous decomposition products
: Potassium oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
: Mild respiratory irritant

Sign and symptoms ingestion
: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin : Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes : Causes eye irritation. Symptoms may include tearing, redness and discomfort.

Potential Chronic Health Effects
: None known or reported by the manufacturer.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity
: Not expected to cause reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) and Canadian WHMIS regulations (Hazardous Products Regulations) , this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure
: Not available.

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Synergistic materials : Not applicable

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

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Potassium silicate	> 2.06 mg/L (dust) (No mortality)	5700 mg/kg	> 5000 mg/kg

Other important toxicological hazards
: Not applicable

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : 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:

Ingredients	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Potassium silicate	1312-76-1	> 146 mg/L (Golden orfe)	Not available	None.

Ingredients	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Potassium silicate	1312-76-1	> 146 mg/L/24hr (Daphnia magna)	Not available	None.

Ingredients	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Potassium silicate	1312-76-1	> 345.4 mg/L/72hr (Green algae) (Read-across)	Not available	None.

Persistence and degradability
: No data is available on the product itself.

Bioaccumulation potential : Not expected to bioaccumulate.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Potassium silicate (CAS 1312-76-1)	Not available	no bioaccumulation expected

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

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.

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SECTION 13. DISPOSAL CONSIDERATIONS

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.

RCRA : If these products, as supplied, become waste in the United States, they may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	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.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de Minimis Concentration
Potassium silicate	1312-76-1	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Skin irritation; Eye irritation

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Potassium silicate	1312-76-1	No	Not applicable	No	No	No	No	No	No

Canadian Information:
All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Potassium silicate	1312-76-1	215-199-1	Present	Present	(1)-459	KE-31000	Present	HSR004068

SECTION 16. OTHER INFORMATION

Legend : AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstract Services
EC50: Effective Concentration 50%
EINECS: Existing and New Chemical Substances
IECSC: Inventory of Existing Chemical Substances
IOC: Inventory of Chemicals
LC: Lethal Concentration
LD: Lethal Dose
MR: Molar Ratio
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

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References : 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 (mm/dd/yyyy) : 09/27/2026 V4 (ICC format)

Other special considerations for handling : Provide adequate information, instruction and training for operators.

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