

Section 1. Identification**Product identifier****Product Identity**

Humate Advantage

Other means of identification

Not Applicable

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

Soil and plant nutrition for agricultural applications

Details of the supplier of the safety data sheet**Company Name**8625 Highway 124
P.O.Box 757
Ione, CA 95640**Emergency****24 hour Emergency Telephone No.****Customer Service:**

Office (530) 676-7873

Section 2. Hazard(s) identification**Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).**

Skin corrosion/irritation category 2;H315

Causes skin irritation.

Serious eye damage / eye irritation, category 2A;H319

Causes serious eye irritation.

Label elements**Warning**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

[Prevention]

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, and face protection.

[Response]

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+313 If skin irritation occurs: Get medical attention.

P337+313 If eye irritation persists: Get medical advice or attention.
P362+364 Take off contaminated clothing and wash it before reuse.

[Storage]

No GHS storage statements

[Disposal]

No GHS disposal statements

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per US or Canadian regulations.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Humalite CAS Number: 129521-66-0 Synonyms: No available information	80 - 100	Not Classified	-----
Humic acids CAS Number: 1415-93-6 Synonyms: No available information	7 - 13	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 2;H319 Specific target organ toxicity, Single exposure category 3;H335	-----
Fulvic Acid CAS Number: 479-66-3 Synonyms: 1H,3H-Pyrano[4,3-b][1]benzopyran-9-carboxylic acid, 4,10-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo-	7 - 13	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 2;H319	-----
Elemental Sulfur CAS Number: 7704-34-9 Synonyms: Sulfur	1 - 5	Skin corrosion/irritation category 2;H315	-----
Iron CAS Number: 7439-89-6 Synonyms: No available information	1 - 5	Combustible Dust	-----
Calcium CAS Number: 7440-70-2 Synonyms: No available information	0.5 - 1.5	Water reacting substance, category 2;H261	-----

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures
General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If large quantities swallowed may cause gastrointestinal irritation. Seek medical attention.
Most important symptoms and effects, both acute and delayed	
Overview	Do Not Inhale or ingest product. May Cause Irritation to eyes or sensitive skin. Mild irritation to mucous membranes, respiratory passages and irritate eyes. Non-systemic. Skin: No incidents of irritation to the skin reported. Inhalation: Not Applicable Ingestion: Low toxicity LD50 unknown. Exposure Standard: None established. No chronic toxicity or long term toxicity information available. Treat symptomatically. See section 2 for further details.
Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO², powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus. Use agents appropriate to surrounding materials to extinguish fire. Evacuate downwind if large quantities are involved in fire.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. ----

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up

Spill Clean-up: Sweep up by mechanical means.

Waste Disposal: Put into proper containers and dispose of in accordance with all local, state and federal regulations.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Incompatible materials: No data available.

Keep locked up and out of reach of children. Keep container tightly closed and in a well-ventilated place.

See section 2 for further details. - [Storage]

Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

Control parameters
Exposure Limits

CAS No.	Ingredient	Source	Value
479-66-3	Fulvic Acid	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
1415-93-6	Humic acids	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7439-89-6	Iron	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7440-70-2	Calcium	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7704-34-9	Elemental Sulfur	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
129521-66-0	Humalite	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

The exposure limits for nuisance dust are: OSHA PEL: 15 mg/m³ (50 mppcf*) TWA, ACGIH 10 mg/m³.

Exposure controls
Respiratory

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

Eyes

Safety Goggles

- Skin** Wear overalls to keep skin contact to a minimum. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
- Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Solid
Color	Brown
Odor	Mild
Melting point / freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Available Upper Explosive Limit: Not Available
Flash Point	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
pH	8-10
Viscosity (cSt)	Not Available
Solubility in Water	Not Available
Partition coefficient n-octanol/water (Log Kow)	Not Available
Vapor pressure (Pa)	Not Available
Relative Density	Not Available
Vapor Density	Not Available
Evaporation rate (Ether = 1)	Not Available

Other information

No other relevant information.

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No data available.

Conditions to avoid

No data available.

Incompatible materials

No data available.

Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Humalite - (129521-66-0)	No data available.	No data available.	No data available.	No data available.	No data available.
Humic acids - (1415-93-6)	No data available.	No data available.	No data available.	No data available.	No data available.
Fulvic Acid - (479-66-3)	No data available.	No data available.	No data available.	No data available.	No data available.
Elemental Sulfur - (7704-34-9)	> 2,000.00, Rat - Category: NA	> 2,000.00, Rat - Category: NA	No data available.	> 5.43, Rat - Category: NA	No data available.
Iron - (7439-89-6)	98,600.00, Rat - Category: NA	No data available.	No data available.	> 250.00, Rat - Category: NA	No data available.
Calcium - (7440-70-2)	> 2,000.00, Rat - Category: NA	> 2,500.00, Rabbit - Category: NA	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
479-66-3	Fulvic Acid	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
1415-93-6	Humic acids	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
7439-89-6	Iron	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
7440-70-2	Calcium	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;

		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
7704-34-9	Elemental Sulfur	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
129521-66-0	Humalite	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No available information

Symptoms and effects, both acute and delayed:

Do Not Inhale or ingest product.

May Cause Irritation to eyes or sensitive skin.

Mild irritation to mucous membranes, respiratory passages and irritate eyes. Non-systemic.

Skin: No incidents of irritation to the skin reported.

Inhalation: Not Applicable

Ingestion: Low toxicity LD50 unknown.

Exposure Standard: None established.

No chronic toxicity or long term toxicity information available. Treat symptomatically.

Eyes Causes serious eye irritation.

Skin Causes skin irritation.

Section 12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Humalite - (129521-66-0)	No data available.	No data available.	No data available.
Humic acids - (1415-93-6)	No data available.	No data available.	No data available.
Fulvic Acid - (479-66-3)	No data available.	No data available.	No data available.
Elemental Sulfur - (7704-34-9)	No data available.	> 0.01, Daphnia magna	No data available.
Iron - (7439-89-6)	No data available.	No data available.	No data available.
Calcium - (7440-70-2)	No data available.	49.10, Daphnia magna	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No data available.

Section 13. Disposal considerations

Waste treatment methods

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	Not Regulated	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)	Class: Not Applicable Sub Class: Not Applicable	Class: Not Applicable Sub Class: Not Applicable	Class: Not Applicable Sub Class: Not Applicable
Packing group	Not Applicable	Not Applicable	Not Applicable

Environmental hazards

IMDG Marine Pollutant: No;

Special precautions for user

Not Applicable

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0007440-70-2	Calcium	Yes		ACTIVE
0007704-34-9	Elemental Sulfur	Yes		ACTIVE
0000479-66-3	Fulvic Acid	No		
0129521-66-0	Humalite	No		
0001415-93-6	Humic acids	Yes	UVCB	ACTIVE
0007439-89-6	Iron	Yes		ACTIVE

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information**Revision Date** 04/23/2025

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H261 In contact with water releases flammable gases.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

The information contained herein is furnished without warranty of any kind. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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