Material Safety Data Sheet
EnergyHume L-Fusion

MSDS Revision Date: July, 2024

1. Identification

1.1. Product identifier

Product Identity	EnergyHume L-Fusion
Alternate Names	Liquid Humic blendable

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

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet. **1.3.**

Details of the supplier of the safety data sheet

Company Name	**Soil Synergy** 5062 AB-549, De Winton, Alberta, Canada T0L 0X0
Emergency INFOTRAC (Canada + USA)	1-800-535-5053
INFOTRAC (International)	1-352-323-3500
Customer Service: Soil Synergy	+1 866-444-7174

2.Hazard(s) identification

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]:
No GHS prevention statements
[Response]:
No GHS response statements
[Storage]:
No GHS storage statements
[Disposal]:
No GHS disposal statements

3.Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Humalite **CAS Number: 68514-28-3**	**12**	**Not Classified**	**[1]**

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1]Substance classified with a health or environmental hazard.
[2]Substance with a workplace exposure limit.
[3]PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4.First aid measures

4.1. 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 Inhalation of dust alone is unlikely to result in an emergency situation. If necessary, use adequate respiratory protection and remove victim to fresh air. Get prompt medical attention if breathing difficulty is evident.

Eyes Flush eyes with large amounts of water to remove residual dust particles. Get medical attention if irritation persists.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Ingestion

4.2. Most important symptoms and effects, both acute and delayed

Overview Swallowing: May cause nausea, headache. Skin Absorption: No evidence of adverse effects from available information. Inhalation: May cause nasal stuffiness, cough, sore throat. Avoid breathing vapors and

mist.

Skin contact: Staining may occur - wash with soap and water. No harmful effects expected.

Eye contact: No harmful effects expected from vapor. If splashed in eyes, rinse

immediately with water for 15 minutes.

Effects of Repeated (Chronic) Overexposure: No evidence of adverse effects from

available information.

Reproductive Toxicity: Not established Mutagenicity: Not established.

Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation: None currently known. See section 2 for further details. Synergistic Products: None established.

5.Fire-fighting measures

5.1. Extinguishing media

Any media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

ERG Guide No. ----

6.Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. 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.

6.3. Methods and material for containment and cleaning up

Leak and Spill Procedure: Take steps to control product discharge to the environment. Notify appropriate authorities immediately and arrange for recovery of spilled material.

Waste Disposal: Ensure waste material is disposed of in accordance with applicable environmental regulations, including local requirements.

7.Handling and storage

7.1. Precautions for safe handling

Minimize generation of dust during handling. Provide adequate ventilation. Be aware of dust explosion hazard.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

Store in dry place. Keep product containers closed or covered where possible.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8.Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
68514-28-3	Humic acids, potassium salts	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
68514-28-3	Humic acids, potassium salts	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory An approved (NIOSH/MSHA) respirator equipped with a dust filter, approved for silica bearing dust, should be worn when exposed to the product under dust generating conditions.

Eyes Goggles recommended.

Skin Wear overalls to keep skin contact to a minimum.

Engineering Controls Local exhaust ventilation and confinement of handling systems may be required to control exposure to dust.

Disposable units are normally satisfactory for short-term or intermittent exposure. The use of additional personal protective equipment varies with severity of conditions. Safety goggles, coveralls and protective footwear are recommended when handling bulk quantities of the product.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or

Other Work Practices

using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9.Physical and chemical properties

Appearance	Dark brown / black liquid
Odor	Odorless
Odor threshold	Not Measured
pH	10.5
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	97 C
Flash Point	Not Applicable
Evaporation rate (Ether = 1)	**Lower Explosive Limit:** Not Measured
Flammability (solid, gas)	**Upper Explosive Limit:** Not Measured
Upper/lower flammability or explosive limits	Negligible
	Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	Not Measured
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Bulk Density	Not Measured
Coefficient of Oil/Water Distribution	Not Measured
% Volatile	Not Measured

No other relevant information.

10.Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

9.2. Other information

11.Toxicological information

Acute toxicity

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
Humic acids, potassium salts - (68514-28-3)	No data available	No data available	No data available	No data available	No data available

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).

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

12.Ecological information

12.1. 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
Humic acids, potassium salts - (68514-28-3)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13.Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14.Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.2. UN proper shipping name			
14.3. Transport hazard class(es)	**DOT Hazard Class:** Not Applicable	**IMDG:** Not Applicable **Sub Class:** Not Applicable	**Air Class:** Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15.Regulatory information

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

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

14.1. UN number	Not Applicable	Not Regulated	Not Regulated
WHMIS Classification	Not Regulated	Not Regulated	Not Regulated
US EPA Tier II Hazards	Not Regulated		

Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): No

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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.

New Jersey RTK Substances (>1%) :
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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The full text of the phrases appearing in section 3 is: **This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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