



Material Safety Data Sheet

Energy L-24

MSDS Revision Date: July, 2024

1. Identification

1.1. Product identifier

Product Identity Energy L-24
Alternate Names Liquid Humic 24 / Potassium Humate 24

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
TOL 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 | | | |
| | 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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