

TECHNAFLORA PLANT PRODUCTS LTD

Material Safety Data Sheet

Liquid Humus

1 . Product and company identification

Common name : Liquid Humus
Material uses : Hydroponic nutrients.
Supplier/Manufacturer : Technaflora Plant Products Ltd.
 1533 Broadway Street, 125
 Port Coquitlam, B.C.
 Canada, V3C 6P3
 Tel. 604-468-4769 / 1-800-586-1211
In case of emergency : CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

2 . Hazards identification

Physical state : Liquid. (Thick.)
Odor : Odorless.
Color : Black.
Hazard status : This material is classified as not hazardous under OSHA regulations.
Emergency overview : No specific hazard.
 USE WITH CARE.
 Follow good industrial hygiene practice.
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects
Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Potential chronic health effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
 Mutagenic effects: Not available.
 Teratogenic effects: Not available.
See toxicological information (section 11)

3 . Composition/information on ingredients

| United States | | | |
|-------------------------|------------|---|--|
| Name | CAS number | % | |
| No hazardous ingredient | | | |

4 . First aid measures

Eye contact : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
Skin contact : Wash with soap and water. Get medical attention if symptoms occur.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Notes to physician : No specific antidote. Medical staff must contact Poison Control Center.

5 . Fire-fighting measures

Flammability of the product : Non-flammable.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : No specific hazard.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions : Use suitable protective equipment.

Environmental precautions : Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7 . Handling and storage

Handling : Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

Eyes : Safety glasses.

Skin : Lab coat.

Respiratory : A respirator is not needed under normal and intended conditions of product use.

Hands : Disposable vinyl gloves.



HMIS Code/Personal protective equipment : A

Personal protection in case of a large spill : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

Hygiene measures : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

| | |
|-----------------------------------|--|
| Physical state | : Liquid. (Thick.) |
| Color | : Black. |
| Odor | : Odorless. |
| pH | : Neutral. |
| Boiling/condensation point | : The lowest known value is 100°C (212°F) (Water). |
| Melting/freezing point | : May start to solidify at 0°C (32°F) based on data for: Water. |
| Relative density | : The only known value is 1 (Water = 1) (Water). |
| Vapor pressure | : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water). |
| Vapor density | : The highest known value is 0.62 (Air = 1) (Water). |
| Evaporation rate | : 0.36 (Water) compared with Butyl acetate. |
| Solubility | : Highly soluble in water. |

10 . Stability and reactivity

| | |
|--|--|
| Stability and reactivity | : The product is stable. |
| Incompatibility with various substances | : Reactive with oxidizing materials. Slightly reactive or incompatible with the following materials: alkalis. |
| Hazardous polymerization | : Will not occur. |
| Conditions of reactivity | : None known. |

11 . Toxicological information

Acute Effects

| | |
|---|--|
| Eyes | : No known significant effects or critical hazards. |
| Skin | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
| Potential chronic health effects | : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available. |

12 . Ecological information

| | |
|----------------------------------|---|
| Environmental precautions | : No known significant effects or critical hazards. |
| Products of degradation | : Not available. |

13 . Disposal considerations

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|-----------------------|--|
| Waste disposal | : Dispose of according to all federal, state and local applicable regulations. |
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14 . Transport information

NAERG : Not applicable.

Regulatory information

UN/ IMDG/IATA DOT : Not regulated.

15 . Regulatory information

United States

- HCS Classification** : Not regulated.
- U.S. Federal regulations** : TSCA : All components listed.
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean Air Act (CAA) 112 accidental release prevention: No products were found.
 Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
 Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
- State regulations** : No products were found.
 California prop. 65: No products were found.
- International lists** : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Hazardous Material Information System (U.S.A.) :

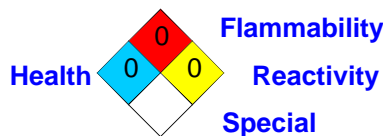
HMIS RATING

| | |
|---------------------|---|
| Health | 0 |
| Fire hazard | 0 |
| Physical Hazard | 0 |
| Personal protection | A |

HAZARD RATINGS

4- Extreme
 3- Serious
 2- Moderate
 1- Slight
 0- Minimal
 See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.) :



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.