



Back To Your Roots Soil Solutions

High Brix Manufacturing

Organic Paperwork for Verification 2021

CHI Liquid Fulvic Concentrate



OMRI Listed®

The following product is OMRI Listed. It may be used in certified organic production or food processing and handling according to the USDA National Organic Program regulations.

Product

CHI LIQUID FULVIC (Concentrate) 0-0-0.5

Company

Canadian Humalite International, Inc.
Edwin Liem
9525-60 Ave
Edmonton Alberta T6E 0C2 CANADA

Status

Allowed

Category

NOP: Humic Acids – alkali
extracted

Issue date

20-Mar-2012

Product number

chi-2935

Class

Crop Fertilizers and Soil
Amendments

Expiration date

01-Mar-2020

Restrictions

Not applicable.



Executive Director/CEO

Product review is conducted according to the policies in the current *OMRI Policy Manual*® and based on the standards in the current *OMRI Standards Manual*®. To verify the current status of this or any OMRI Listed product, view the most current version of the *OMRI Products List*® at OMRI.org. OMRI listing is not equivalent to organic certification and is not a product endorsement. It cannot be construed as such. Final decisions on the acceptability of a product for use in a certified organic system are the responsibility of a USDA accredited certification agent. It is the operator's responsibility to properly use the product, including following any restrictions.



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CHI LIQUID FULVIC (Concentrate)

CONTAINS NONPLANT FOOD INGREDIENT:

Guaranteed Analysis

Active Ingredient

Fulvic Acids.....1.1% (Colorimetric method)

Fulvic Acids.....0.43% (ISO 19822:2018)

READ ENTIRE LABEL CAREFULLY BEFORE USING THIS PRODUCT

GENERAL INFORMATION

CHI Liquid Fulvic (Concentrate) is a liquid product derived from natural material rich in soil organic matters and humic substances. This product is best applied to plants. Soil organic matters and humic substances have been proven to improve the quality of soil, growth of soil organisms, and the uptakes of nutrients by plants.

PURPOSE OF PRODUCT

Its primary use is to improve nutrient uptakes by leaves.

RECOMMENDED APPLICATION RATES

Agriculture:

Seed Treatment Sprays or Drips and Transplant Water:

9 ounces per 1,000 USG solution (water and/or nutrients)
OR 70 mL per 1,000 L solution (water and/or nutrients)

Broadcast (Foliar)

9 ounces per 1,000 USG solution (water and/or nutrients)
OR 70 mL per 1,000 L solution (water and/or nutrients)
foliar applied to plants up to 15% flowering
OR

½ to 1 ounce per acre OR 35 to 70 mL per hectare

Turf:

Broadcast (Foliar):

9 ounces per 1,000 USG solution (water and/or nutrients)
OR 70 mL per 1,000 L solution (water and/or nutrients)
foliar applied throughout growing season
OR

½ to 1 ounce per acre OR 35 to 70 mL per hectare

Horticulture:

Trees, Shrubs, Bedding Plants, or Established Ornamentals:

1 teaspoon per USG water OR 1/3 teaspoon per L water during watering

MIXING DIRECTIONS

CHI Liquid Fulvic (Concentrate) is compatible with almost all liquid fertilizers, micronutrients, pesticides, and water. The addition of CHI Liquid Fulvic (Concentrate) to any products should not be done without first testing compatibility on a small scale. When mixing with pesticides, dilute CHI Liquid Fulvic (Concentrate) with water prior to the addition of buffering agents and pesticides. Do not tank mix with carbonate-based pesticides, as efficacy will decrease. Follow all directions and precautions on pesticide labels prior to mixing with CHI Liquid Fulvic (Concentrate). **DO NOT** mix CHI Liquid Fulvic (Concentrate) with calcium nitrate, phosphoric acid, zinc sulfate or other solutions with a pH of less than 6.0.

NOTICE: Canadian Humalite International Inc. warrants that this product meets all chemical descriptions on the label. When used according to the directions under normal conditions, the product is reasonably fit for the purpose stated on this label. However, Canadian Humalite International Inc. will not be liable for indirect damages resulting from the use or handling of this product. Ineffectiveness, crop injury, and other unintended consequences may result from the presence of other substances, weather conditions, and the way the product being applied, which are beyond the control of Canadian Humalite International Inc. Buyer shall assume all such risks when using the product.

DISCLAIMER: Not all products are available for purchase or authorized for use in every location. Some cities, states, and countries may require specific licensing and training to market, purchase, and apply some of the products. It is the responsibility of the distributor, retailer, and user to verify, before product sale and purchase, that the product is approved for the use in their city, state, and country.

CAUTION:
HARMFUL IF SWALLOWED
KEEP AWAY OF REACH OF CHILDREN

Density: 8.5 lbs/US Gallon (1.02 kg/L)



PRODUCT OF CANADA

Manufactured By:

Canadian Humalite International Inc.

9525 – 60 Avenue NW • Edmonton, AB • CANADA • T6E 0C2

Telephone: (780) 488-4810 • Facsimile: (780) 488-4814

Email: info@cdnhumaliteintl.com

Website: www.cdnhumaliteintl.com

ICP ANALYSIS

PARAMETER	VALUE	UNIT
Ag	<0.01	ppm
Al	72	ppm
As	0.17	ppm
B	<10	ppm
Ba	0.738	ppm
Be	<0.1	ppm
Bi	<0.05	ppm
Ca	<50	ppm
Cd	<0.005	ppm
Co	<0.1	ppm
Cr	<0.1	ppm
Cs	<0.01	ppm
Cu	<0.5	ppm
Fe	<10	ppm
K	4950	ppm
Li	<1.0	ppm
Mg	<5.0	ppm
Mn	0.49	ppm
Mo	0.198	ppm
Na	95	ppm
Ni	<0.5	ppm
P	<50	ppm
Pb	<0.05	ppm
Rb	0.28	ppm
S	<500	ppm
Sb	<0.1	ppm
Se	<0.05	ppm
Si	<100	ppm
Sn	<0.1	ppm
Sr	0.47	ppm
Th	<0.1	ppm
Te	<0.2	ppm
Ti	0.76	ppm
Tl	<0.010	ppm
U	0.155	ppm
V	<0.5	ppm
W	0.11	ppm
Zn	<3.0	ppm
Zr	0.096	ppm

CHI LIQUID FULVIC (CONCENTRATE)

CHI LIQUID FULVIC (CONCENTRATE) is a liquid product derived from natural material rich in soil organic matters and humic substances. This product is best applied to plants. Soil organic matter and humic substances have been proven to improve the quality of soil, growth of soil organisms, and the uptakes of nutrients by plants.

** Can be diluted 150:1

BASIC PARAMETERS

PARAMETER	VALUE	UNIT
Organic matter	1.1	%
Fulvic Acid	1.1 ¹⁾ 0.43 ²⁾	%
Density	1,020 64	kg/m3 lbs/ft3
pH	9.8	-
Color	Dark Red / Orange	-

¹⁾ As received analysis - mass balance calculation

²⁾ As received analysis – ISO 19822:2018

ULTIMATE ANALYSIS

PARAMETER	VALUE	UNIT
C	0.7	%
H	10.0	%
N	<0.1	%
O	88.4	%
S	<0.1	%
Inorganics (ash)	0.7	%
TOTAL	100.0	%



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PRODUCT OF CANADA

October, 2018

1. IDENTIFICATION

Product Identifier:

CHI Liquid Fulvic (Concentrate)

Recommended Use:

Soil amendment

Restrictions to Use:

Agriculture use only

Canadian Supplier Identifier

Canadian Humalite International Inc.

9525 - 60 Avenue NW Edmonton, Alberta, Canada T6E 0C2

Emergency Telephone #:

780-488-4810

2. HAZARD IDENTIFICATION

Hazard Classification:

Acute toxicity: oral, dermal, inhalation (Category 4) – maybe harmful if swallowed

Skin irritation (Category 3) – causes mild skin irritation

Eye irritation (Category 2A) – causes eye irritation

Specific target organ toxicity: respiratory tract irritation (Category 3)

– vapors may cause respiratory irritation

Label Elements:



WARNING

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Do not breathe vapors

Do not get in eyes, on skin, or on clothing

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear protective gloves/eye protection

(In case of inadequate ventilation) Wear respiratory protection

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

Potassium humate

Common Name and Synonyms:

N/A

Chemical Abstract Service Registry Number:

68514-28-3

Chemical Name of Impurities

N/A

4. FIRST-AID MEASURES

If Swallowed:

Rinse mouth

If on Skin or Hair:

Rinse skin with water/shower

If Inhaled (Vapors):

Remove person to fresh air and keep comfortable for breathing

If in Eyes:

Rinse cautiously with water for several minutes

If on Clothing:

Take off contaminated clothing and wash it before reuse

5. FIRE-FIGHTING MEASURES

Flammability:

Not considered fire hazard

Means of Extinction:

Use media appropriate to surround fire

Special Procedures:

N/A

6. ACCIDENTAL RELEASE MEASURES

Cleaning

Wash with water and contain, notify appropriate authorities when release to environment occurs

Containment

Storage containers

SAFETY DATA SHEET

7. HANDLING AND STORAGE

Handling Ordinary liquid transfer and storage equipment (pumps, etc)
Storage Store in dry place, closed container, at temperatures not exceeding 50 °C or below freezing

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: **Respiratory Protection** - not required in fresh air or good ventilation
Protective Gloves - wear loose fitting gloves
Eye protection - goggles required when spraying

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Odor: Odorless
Odor Threshold: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Evaporation Rate: N/A
Boiling Point: 76 °C
pH: 10.2
Appearance: Black
Specific Gravity: 1.02
Coefficient of Water/Oil Distribution: N/A
Moisture: 98%

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ambient conditions
Incompatibility with other Substances: Non-reactive
Minimum Ignition Temperature: N/A
Minimum Explosive Concentration: N/A
Minimum Ignition Energy: N/A
Susceptibility to Spontaneous Combustion: N/A

11. TOXICOLOGICAL INFORMATION

Lethal Dose: N/A
Lethal Concentration: N/A
Route of Exposure: Ingestion, skin contact, eye contact, inhalation
Effects of Repeated (Chronic) Overexposure: N/A
Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation: N/A

12. ECOLOGICAL INFORMATION

Ecological Concerns: N/A

13. DISPOSAL CONSIDERATION

Disposal In accordance to applicable environmental regulations, landfill

14. TRANSPORT INFORMATION

Department of Transportation: Not considered hazardous material

15. REGULATORY INFORMATION

Registrations: United States Department of Agriculture – National Organic Program
Canadian Food Inspection Agency
California Department of Food and Agriculture
Other states in United States

16. OTHER INFORMATION

Latest Revision December 13, 2017