



AROMATRIX FLORA PVT. LTD.

Factory: Plot No. 242, HPSIDC Industrial Area, Baddi,
District Solan, Himachal Pradesh -173205, INDIA
Tel.: +91-1795-244901; Fax: +91-1795-247300
E-mail: aromatrixflora@hotmail.com

Leaf Hops

Material Safety Data Sheet

Note

Leaf hops are not classified as dangerous products according to European Union legislation, and their use is as a food product in the brewing of beer. However, this safety data sheet is provided voluntarily according (as appropriate) to the principles of the Classification, Labeling and Packaging Regulations (Regulation (EC) No.1272/2008).

1. Product and Supplier Information

Name:	Leaf Hops
Synonyms:	Cone Hops, Raw Hops, Whole Leaf Hops
Supplier:	Aromatrix Flora Pvt. Ltd. Plot No. 242, HPSIDC Industrial Area Baddi, District Solan, Himachal Pradesh-173205
Emergency Contact Details:	Tel: +91-1795-244901 (9:00 – 6:00 pm IST); Fax:+91-1795-247300 Email: aromatrixflora@hotmail.com

2. Hazard Identification

Classification:	Not classified (Regulation (EC) No. 1272/2008) Not classified (Directive 67/548/EEC)
Label Elements:	N/A (not classified)
Other Hazards:	Associated dust may be irritating to eyes, mouth and throat.

3. Components/Composition

The product consists entirely of hop cones of the cultivated hop plant *Humulus lupulus*. Many different varieties.

Main ingredients:	Cellulose, hop resins and hop essential oils.
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4. Emergency and First Aid Procedures

Description of First Aid Methods:	<u>Inhalation</u> : Move to fresh air. <u>Skin Contact</u> : Brush off excess material and wash skin thoroughly with soap and water. <u>Eye Contact</u> : Flood the eye with plenty of water. If any symptoms persist obtain medical attention. <u>Oral Ingestion</u> : Drink large amounts of water to dilute. Vomiting may occur but should not be induced. Obtain medical attention if symptoms persist.
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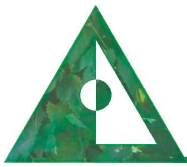
Most Important Symptoms and Effects:	None known. See Section 2.
Indication of Immediate Medical Attention or Special Treatment:	None Known
5. Fire-Fighting Measures	
Extinguishing media:	Carbon dioxide, dry powder and foam. Keep containers and surroundings cool with water spray. Great care should be taken using water/jet spray.
Special Hazards Arising from Substance:	Not known.
Advice for Firefighters:	Fire fighters should wear self-contained positive pressure breathing apparatus.
6. Accidental Release/Spill measures	
Personal protection:	Wear appropriate protective clothing – see Section 8.
Environmental precautions:	Do not allow product to enter drains or water courses.
Methods for Cleaning Up:	Normal clean-up procedures as for any agricultural commodity.
7. Handling and Storage	
Precautions for Safe Handling:	Avoid generating excessive dust. Avoid excessive contact with product. Use appropriate protective clothing as indicated in Section 8. Wash hands after use.
Conditions for Safe Storage:	To guarantee quality avoid heat, moisture and strong odours during storage. Leaf Hops should not be exposed to temperatures above 20 °C (68 °F) since it is possible that gases are formed from hop constituents. The resulting pressure increase may cause bursting of the foils. Consequently the raw hops will be exposed to air and oxidation resulting in a considerable deterioration of quality. Suitable storage containers are thick gauge laminated foil bags, hessian or plastic bags. Best storage is in a cold (-2 to 4°C, 28 to 39 °F) dry area, protected from weather influences and foreign odours. Maximum moisture content should be 12%
Specific End Uses:	The substance is manufactured for use as a food ingredient and for such uses is not subject to registration via REACH (Regulation (EC) No.1907/2006). It should be used in accordance with applicable food legislation.



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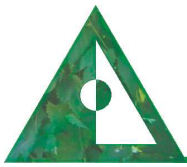
8. Exposure Controls/Personal Protection	
Control Parameters:	Not Applicable
Exposure Controls:	<u>Engineering Controls:</u> Provide adequate ventilation. <u>Eye/Face Protection:</u> If in danger of generating dust, wear goggles. <u>Hand Protection:</u> Gloves possible (not mandatory) <u>Skin Protection:</u> Gloves possible (not mandatory) <u>Respiratory Protection:</u> If in danger of generating dust, wear a facemask.
9. Physical and Chemical Properties	
Appearance:	Whole hop cones, sometimes compressed. Various shades of green
Odour:	Characteristic, typical hoppy, depends on variety
Odour Threshold:	No data available
pH:	No data available
Melting Point:	No data available
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability:	No data available
Upper/Lower Flammability:	No data available
Vapour Pressure:	No data available
Vapour Density:	No data available
Density:	450 – 700 kg.m ⁻³ (80 – 200 if not compressed)
Solubility in Water:	No data available
Partition Coefficient:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity at 20 °C:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
10. Stability and Reactivity	
Reactivity:	No reactivity hazards known
Chemical Stability:	Stable if stored in accordance with Section 7
Possibility of Hazardous Reactions:	None known
Conditions to Avoid:	See Section 7
Incompatible Materials:	None known



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Hazardous Decomposition Products:	None known
11. Toxicological Information	
Cone Hops are generally recognized as safe (GRAS) in accordance with US FDA 21 CFR 170.30(c) and 170.3(f). <u>LD/LC50 values that are relevant for classification:</u> No toxicity data are available for the product itself. Primary irritant effect: On the skin: Not determined On the eye: Eye irritation is possible after mechanical influence (dust). Sensitization: No sensitizing effects known.	
12. Ecological Information	
Ecotoxicological effects: Presently there are no ecotoxicological values available. Aquatic toxicity: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.	
13. Disposal Considerations	
Product disposal:	Dispose of in accordance with all applicable local and national regulations.
Container disposal:	Labels should not be removed from containers until they have been cleaned. Contaminated containers should not be treated as household waste. Containers should be cleaned using appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.
14. Transport Information	
<u>Land:</u> ADR/RID class (cross-border): Not a hazardous good according to the regulation. Domestic (D.O.T): Not a hazardous good according to the regulation. <u>Water:</u> IMDG Class: Not a hazardous good according to the regulation. Marine pollutant: Not a hazardous good according to the regulation. <u>Air:</u> ICAO/IATA Class: Not a hazardous good according to the regulation.	
15. Regulatory Information	
Markings according to EC guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).	



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National regulations

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other Information

The information in this safety data sheet is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on our present knowledge and should be used only as a supplement to information already in your possession concerning this product. It does not represent any guarantee of the properties of the product. The determination of whether and under what condition the product should be used is yours to make. We do not accept any liability for loss, injury or damage that may result from its use.

Date of issue: 25 October 2016