

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

Rho-Extract

Material Safety Data Sheet

Note

Rho-Extract is not classified as dangerous product according to European Union legislation, and its 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, Labelling and Packaging Regulations (Regulation (EC) No.1272/2008).

1. Product and Supplier Information		
Name:	Rho-Extract	
Synonyms:	Light Stable Kettle Extract (LSKE)	
Supplier:	Aromatrix Flora Pvt. Ltd.	
	Plot No. 242, HPSIDC Industrial Area	
	Baddi, District Solan, Himachal Pradesh-173205	
Emergency Contact	Tel: +91-1795-244901 (9:00 – 6:00 pm IST; Mon-Sat);	
Details:	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:	This product is an ingredient for beer, and is bitter. It has not	
	been fully tested. Ingestion of a large dose may cause	
	irritation of mouth, throat and digestive tract. The product	
	may cause eye irritation and prolonged handling may cause	
	dermatitis.	
3. Components/Composition		

The product is a mixture of reduced (Rho) isomerized hop bitter acids (viz. Rho-iso- α -acids in their potassium salt form), hop resins and essential oils. The reduced (Rho) isomerized bitter acid content varies according to the original hop variety extracted, but typically the range will be 40 - 45 % Rho-iso- α -acids.

4. Emergency and First Aid Procedures		
Description of First	Inhalation: Move to fresh air.	
Aid Methods:	Skin Contact: Wash skin thoroughly with soap and water.	
	Eye Contact: Flood the eye with plenty of water. If any	
	symptoms persist obtain medical attention.	

1 | Page 10/2016



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	Oral Ingestion: The product is very bitter and it is very unlikely
	that anyone would ingest large amounts. Should this happen
	drink large amounts of water to dilute. Vomiting may occur
	but should not be induced. Obtain medical attention if
	symptoms persist.
Most Important Symptoms	May cause irritation of eyes if in contact with eyes.
and Effects:	
Indication of Immediate	None Known
Medical Attention or	
Special Treatment:	
5. Fire-Fighting Measures	
Extinguishing media:	Carbon dioxide, dry powder and foam.
Special Hazards Arising	Contains hop oil. Hop oil is combustible and may give rise to
from Substance:	hazardous fumes in a fire.
Advice for Firefighters:	Fire fighters should wear self-contained positive pressure
-	breathing apparatus.
6. Accidental Release/Spill m	neasures
Personal protection:	Wear appropriate protective clothing – see Section 8.
Environmental precautions:	Do not allow product to enter drains or water courses.
Methods for	Contain spillage using earth, sand or other inert material.
Cleaning Up:	Transfer to suitable sealed container prior to disposal. Flush
	area with hot soapy water to remove final traces. Use
	adequate ventilation or a respirator if in a confined area.
7. Handling and Storage	·
Precautions for	Avoid excessive contact with product. Use appropriate
Safe Handling:	protective clothing as indicated in Section 8. Wash hands after
	use.
Conditions for	Store at 0 – 10 °C (32 – 50 °F). Keep container closed when
Safe Storage:	not in use. Use opened containers as soon as possible.
•	Suitable storage is in glass, high density polyethylene, and
	high phenolic lacquered mild steel.
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.
8. Exposure Controls/Person	
Control Parameters:	Not Applicable
Exposure	Engineering Controls: Provide adequate ventilation.
Controls:	Eye/Face Protection: Wear chemical goggles during handling.
	Hand Protection: PVC, rubber, latex or nitrile gloves.
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2 | Page 10/2016



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	Skin Protection: If danger of splashing wear PVC or rubbe	
	apron.	
	Respiratory Protection: Not normally required.	
9. Physical and Chemical Properties		
Appearance:	Viscous liquid, yellow/orange to brown/green	
Odour:	Characteristic, resinous aroma	
Odour Threshold:	No data available	
pH:	No data available	
Melting Point:	40 – 60 °C (104 – 140 °F), depending on variety	
Boiling Point:	>100 °C	
Flash Point:	>60 °C	
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:	850 – 1100 kg.m ⁻³	
Solubility in Water:	Insoluble; forms an emulsion	
Partition Coefficient:	No data available	
Autoignition Temperature:	No data available	
Decomposition	No data available	
Temperature:		
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	None known	
Reactions:		
Conditions to Avoid:	Keep container closed when not in use	
Incompatible Materials:	None known	
Hazardous Decomposition	None known	
Products:		
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11. Toxicological Information	n	

11. Toxicological Information

Acute toxicity:

LD/LC50 values that are relevant for classification:

No toxicity data are available for the product itself.

3 | Page 10/2016



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Primary irritant effect:

on the skin: not determined; light irritation of the skin is possible **on the eye:** not determined; irritation to the eyes is possible

Sensitization: No sensitizing effects known

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

12. Ecological Information

Ecotoxical 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

Land:

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.

Water:

IMDG Class: Not a hazardous good according to the regulation.

Marine pollutant: Not a hazardous good according to the regulation.

Air:

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).

Although this product is not subject to identification regulations, we recommend to observe the safety suggestions.

Code letter and hazard designation of product: Xi Irritant

Risk phrases: R 36/38 Irritation to eyes and skin

4 | Page 10/2016



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Safety phrases: S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

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

5|Page 10/2016