



Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	Bay Leaf West Indian Oil (Bay Rum).				
Biological Definition	Pimenta Racemosa Leaf/Fruit Oil is an essential oil obtained from the fruits of the plant, <i>Pimenta racemosa</i> , <i>Myrtaceae</i> .				
INCI Name	Pimenta Racemosa Leaf/Fruit Oil.				
Synonyms & Trade Names	Bay Leaf Oil, Bay Oil WI.				
CAS-No	85085-61-6	EC No.	285-385-5	EINECS No.	285-385-5

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the safety data sheet

Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1

1.4 Emergency Tel. No.

604-540-8700 (Monday-Friday 8:30 am-4:30 pm)

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

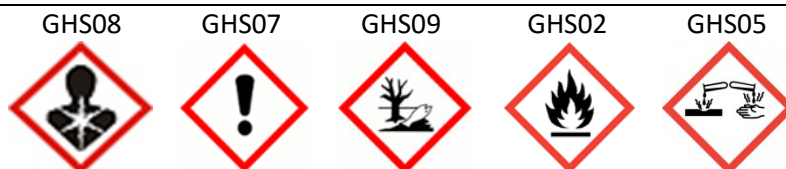
The Full Text for all Hazard Statements displayed in Section 16.

Classification (EC 1272/2008)

Germ cell mutagenicity, Category 2 (Muta. 2, H341).
 Acute Tox Category 4 (ATO 4. H302).
 Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
 Carcinogenicity, Category 2 (Carc. 2, H351).
 Flammable liquid, Category 3 (Flam. Liq. 3, H226).
 Skin Corrosion Category 1A (Skin Corr 1A H314).
 Skin sensitisation, Category 1 (Skin Sens. 1, H317).

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word	Danger.
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Contains	-
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Hazard Statements

H226 Flammable Liquid and vapour.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects kidneys, nervous system, lungs, blood, circulatory system, bone marrow, adrenal gland, spleen, gastrointestinal, thyroid and immune system.
 H351 Suspected of causing cancer kidneys, nervous system, lungs, blood, circulatory system, bone marrow, adrenal gland, spleen, thyroid, gastrointestinal and immune system.
 H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

P280 Wash...thoroughly after handling.
 P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P303+361+353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with.
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+313: IF exposed or concerned: Get medical.
 P321 Specific treatment (see on this label).
 P370+378 In case of fire: Use for extinction.

Supplementary Precautionary Statements

None.

2.3 Other Hazards

PBT or vPvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.
Adverse physio-chemical properties	Risk of explosion if heated under confinement.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

50.0 – 70.0% EUGENOL CAS: 97-53-0, EC: 202-589-1

Classification (EC 1272/2008) Acute Tox. 4, H302, Carc. 2, H351, Muta. 2, H341

1.0 – 10.0% EUGENYL METHYL ETHER (METHYL EUGENOL) CAS: 93-15-2, EC: 202-223-0

Classification (EC 1272/2008) Acute Tox. 4, H302, Carc. 2, H351, Muta. 2, H341

1.0 - 10.0% D-Limonene CAS: 5989-27-5, EC: 227-813-5

Classification (EC 1272/2008) Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400
 M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1

1.0 – 10.0% Linalool CAS: 78-70-6, EC: 201-134-4

Classification (EC 1272/2008) Eye Irrit. 2, H319, Skin Irrit. 2, H315

<1.0% 1-Octen-3-ol CAS: 3391-86-4, EC: 222-226-0

Classification (EC 1272/2008) Acute Tox. 4 - H302, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Aquatic Acute 1 - H400

<1.0% Citral CAS: 5392-40-5, EC: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2: H315; Skin Sens. 1: H317

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.
Ingestion	Wash out mouth with water. Consult a doctor.
Skin Contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye Contact	Bathe the eye with running water for 15 minutes. Consult a doctor.
4.2 Most important symptoms and effects, both acute and delayed	
Skin contact: There may be irritation and redness at the site of contact. Eye contact: There may be irritation and redness. The eyes may water profusely. Ingestion: There may be soreness and redness of the mouth and throat. Inhalation: There may be irritation of the throat.	
4.3 Indication of any immediate medical attention and special treatment needed	
No additional data available.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.	
5.2 Special hazards arising from the product	
Exposure hazards: In combustion emits toxic fumes.	
5.3 Advice for firefighters	
Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.	
6.2 Environmental Precautions	
Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.3 Methods and material for containment and cleaning up.	
Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.	
6.4 Reference to other sections	
No additional data available.	

07. HANDLING AND STORAGE

7.1 Precautions for safe handling	
Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.	
7.2 Conditions for safe storage, including any incompatibilities	

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.
 Suitable packaging: 12 months from date of despatch if kept under optimum conditions.

7.3 Specific end use(s)

No additional data available.

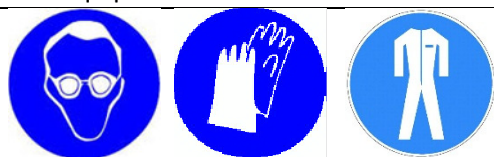
08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data available.

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.
Respiratory Equipment	Self-contained breathing apparatus must be available in case of emergency.
Hand Protection	Protective gloves.
Eye Protection	Safety glasses. Ensure eye bath is to hand.
Other Protection	Protective work clothing solvent resistant (should be checked regularly).
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	No additional data available.
Skin Protection	Protective clothing.
Environmental Exposure Controls	The usual precautions in handling chemicals have to be observed.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Mobile liquid.
Colour	Yellowish to red brown liquid /dark amber.
Odour	Characteristic.
Relative Density	0.940 – 0.985 @ 20°C
Flash Point (°C)	57°C
Refractive Index	1.500 – 1.520 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.
10.2 Chemical stability
Stable under normal conditions.
10.3 Possible hazardous reactions
No additional data available.
10.4 Conditions to Avoid
Heat.
10.5 Incompatible materials
Strong oxidising agents. Strong acids.
10.6 Hazardous Decomposition Products
In combustion emits toxic fumes.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects										
Acute Toxicity	<p>Tox Values Oral route RAT : LD50 = 1800 mg/kg</p> <p>Relevant effects for mixture :</p> <table border="1"> <thead> <tr> <th>Effect</th> <th>Route</th> <th>Basis</th> </tr> </thead> <tbody> <tr> <td>Irritation</td> <td>OPT</td> <td>Hazardous: Calculated</td> </tr> <tr> <td>Sensitisation</td> <td>DRM</td> <td>Hazardous: Calculated</td> </tr> </tbody> </table>	Effect	Route	Basis	Irritation	OPT	Hazardous: Calculated	Sensitisation	DRM	Hazardous: Calculated
Effect	Route	Basis								
Irritation	OPT	Hazardous: Calculated								
Sensitisation	DRM	Hazardous: Calculated								
Skin corrosion / irritation	There may be irritation and redness at the site of contact.									
Serious eye damage / irritation	There may be irritation and redness. The eyes may water profusely.									
Respiratory or skin sensitisation	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. There may be soreness and redness of the mouth and throat.									
Germ Cell Mutagenicity	No additional data available.									
Carcinogenicity	No additional data available.									
Reproductive toxicity	No additional data available.									
STOT-single exposure	No additional data available.									
STOT-repeated exposure	No additional data available.									
Aspiration hazard	No additional data available.									
Photo-toxicity	No additional data available.									
Other Information	No additional data available.									

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No additional data available.
12.2 Persistence & degradability
Not biodegradable.
12.3 Bioaccumulation Potential
Bioaccumulation potential.
12.4 Mobility in soil
Readily absorbed into soil.

12.5 Results of PBT and vPvB Assessment

This substance is not identified as a PBT substance.

12.6 Other adverse effects

Toxic to aquatic organisms. Toxic to soil organisms.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**14.1 UN number**

UN No. Road	1169
UN No. SEA	1169
UN No. AIR	1169

14.2 UN proper shipping name

Extracts, aromatic, liquid.

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3
ADR/RID/ADN Class 3
IMDG Class 3
ICAO Class/Division 3

Transport Labels

**14.4 Packing group**

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.

**14.6 Special precautions for user**

No additional data available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects.
Other Information	None.
Revision Date	February 26, 2016
Reason for revision	New format and updated SDS.
Rev No/Repl, SDS Generated	02

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