



MATERIAL SAFETY DATA SHEET

Star Anise Essential Oil	Version: 02	Date Implemented: July 2009
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5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:	Carbon Dioxide; Dry Chemical; Universal-Type Foam.
5.2 Unsuitable Extinguishing Media:	Water Spray; Others not established.
5.3 Unusual Firefighting Hazards:	None identified.
5.4 Special Procedures:	Determine the need to evacuate or isolate the area according to your local emergency plan.
5.5 Protective Equipment:	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
5.6 Combustion Products:	Oxides of carbon.
5.7 Contact Point:	Dial 000 Emergency in case of fire [In Australia] or Local Emergency Authority [Out of Australia].

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
6.2 Safety Precautions:	Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan;
6.3 Environmental Precautions:	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
6.4 Methods For Cleaning Up:	Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent. Refer also to Section 13. for disposal procedures.

7. SAFE HANDLING AND STORAGE INFORMATION

7.1 Handling:	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.
7.2 Storage:	Not a hazardous material. A Scheduled 5 Poison. Containers should be kept closed in order to minimise contamination. Store in a cool, dry, well ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Glass, laquer-lined steel/tin, aluminium and F/HDPE acceptable containers. Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Refer to Section 10.
7.3 Unsuitable Packaging Materials:	None established.
7.4 Special Procedures:	None established.



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 Respiratory Protection:** None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
- 8.2 Ventilation Protection:** Ensure adequate ventilation to keep exposure levels to a minimum. General exhaust is recommended.
- 8.3 Eye Protection:** Using goggles or face shield is recommended.
- 8.4 Protective Gloves:** Using chemical resistant gloves is recommended.
- 8.5 Protective Clothing:** Using chemical resistant clothing is recommended.
- 8.6 Protective Equipment:** An eyewash fountain and / or safety shower should be available in the work area.
- 8.7 Special Engineering Controls:** None established.
- 8.8 Other Personal Protection:** Consult the following Australian Standards for general advice regarding safety clothing and equipment: Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS 2919**, Industrial Eye Protection: **AS 1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS 2210**.
- 8.9 Note:** These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES
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TEST	SPECIFICATION
9.1 Appearance:	Clear, pale yellow to yellow liquid
9.2 Odour:	Characteristic
Odour Threshold:	Not available.
9.3 Specific Gravity:	0.975 to 0.992 @ 20°C
9.4 Refractive Index:	1.550 to 1.560 @ 20°C
9.5 Optical Rotation:	Not available.
9.6 pH:	Not available.
9.7 Solubility:	Soluble in ethyl alcohol
9.8 Solubility in Water:	Insoluble
9.9 Flash Point:	83°C [Test unknown]
9.10 Flammability Limits [as % v/v in Air]	
Lower Explosion Limit:	Not available.
Upper Explosion Limit:	Not available.
9.11 Autoignition Temperature:	Not available.
9.12 Melting Point:	Not available.
9.13 Boiling Point:	Not available.
9.14 Vapour Pressure:	Not available.
9.15 Vapour Density:	Not available.

9.16 GAS CHROMATOGRAPH ANALYSIS --- and ECHA Listed Sensitisers & IFRA Notifiable Substances

CONSTITUENT	IFRA	ECHA	CAS Number	EINECS Number	RANGE
Linalool:	YES	YES	78-70-6	201-134-4	< 5%
Limonene:	YES	YES	138-86-3	205-341-0	< 3%



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10. STABILITY AND REACTIVITY

10.1 Stability:	Chemically stable, non hazardous material. This material presents no significant reactivity hazard.
10.2 Conditions to Avoid:	None established.
10.3 Materials to Avoid:	Strong acids, strong alkalis and oxidizing agents.
10.4 Flammability:	Combustible liquid.
10.5 Hazardous Polymerization:	Will not occur.
10.6 Hazardous Combustion or Decomposition Products:	Carbon monoxide and unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity	
LD50 [Oral]:	Not tested on animals – So not available.
LD50 [Dermal]:	Not tested on animals – So not available.
LC50 [Inhalation]:	Not tested on animals – So not available.
11.2 Exposure Limits	There is a blanket recommendation of 10 mg/m ³ for inspirable dusts or mists when limits have not otherwise been established.
OSHA TWA:	None established.
OSHA STEL:	None established.
ACGIH TWA:	None established.
ACGIH STEL:	None established.
NOHSC TWA:	None established.
NOHSC STEL:	None established.
11.3 Short Term Toxicity:	Not available.
11.4 Long Term Toxicity:	Not available.
11.5 Human Exposure Tests:	Not available.

12. ECOLOGICAL INFORMATION

12.1 Eco-toxicity:	None established. Avoid pollution to soil, rivers and the ocean.
12.2 Mobility:	Low mobility in the soil.
12.3 Persistence & Degradability:	Low persistence level and readily biodegradable.
12.4 Bio-accumulative Potential:	None established.
12.5 Other Adverse Effects:	None established.

13. DISPOSAL CONSIDERATION

13.1 Waste Material:	Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
13.2 Contaminated Packaging:	Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
13.3 Note:	Empty containers can have residues, gases and mists. Use the proper Waste Disposal Methods & Procedures for Empties as well.



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14. TRANSPORT INFORMATION

14.1 Transportation: Not Dangerous Goods according to criteria of the Australian Dangerous Goods Code for Transport by Road and Rail. No special transport required.
14.2 Proper Shipping Name: Not Regulated.
14.3 UN Number: Not allocated.
14.4 Packaging Group: Not allocated.
14.5 DG Class: Not allocated.
14.6 Poison Schedule: Schedule 5 CAUTION.
14.7 Hazchem Code: Not allocated.

14.8 Maritime Transportation IMDG 14.9 Air Transportation ICAO-TI and IATA-DGR

IMDG Class: Not allocated. ICAO / IATA Class: Not allocated.
Label: Not allocated. Label: Not allocated.
UN Number: Not allocated. UN Number: Not allocated.
Packaging Group: Not allocated. Packaging Group: Not allocated.
EMS Number: Not allocated.
Marine Pollutant: Not Regulated.
Proper Shipping Name: Not Regulated. Proper Shipping Name: Not Regulated.

15. REGULATORY INFORMATION

15.1 Risk Symbols: Not allocated.
15.2 Risk Phrases: Not allocated.
15.3 Safety Phrases: Not allocated.
15.4 Warning Statements: Not allocated.
15.5 Safety Directions: 1 Avoid contact with eyes.
3 Wear eye protection when mixing or using.
4 Avoid contact with skin.
5 Wear protective gloves when mixing or using.
6 Wash hands after use.
11 No smoking.
15 Store under cover in a dry, clean, cool, well ventilated place away from sunlight.
23 Keep away from heat, sparks and naked flames.
25 Avoid contact with food.
15.6 Standard Statements: A For advice, contact a Poisons Information Centre [Phone eg Australia 131126; New Zealand 0800 764 766] or a doctor.
G3 If swallowed, do NOT induce vomiting.



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16. ADDITIONAL INFORMATION

16.1 DISCLAIMER

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. Saffire Blue Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Material Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product. This document is thus, intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Saffire Blue Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Saffire Blue Inc. expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Saffire Blue Inc. as to the fitness for any use. The liability of Saffire Blue Inc. is limited to the value of the goods and does not include any consequential loss. Saffire Blue Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Saffire Blue Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

16.2 MANUFACTURED PRODUCTS INGREDIENT DISCLAIMER

As the availability of ingredients and raw materials is not always certain whether due to changes in nature or otherwise, Saffire Blue Inc. reserves the right to substitute alternate ingredients/raw materials in the manufacture of its products and bases in order to maintain supply to its customers. Customers should always refer to the ingredients label as affixed to each product or to specification sheets which are current at the time of supply of the product.