



SAFFIRE BLUE INC.

MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil Revision Date: 4th July 2012



127



SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- 1.1 Product Name:** Lily of the Valley Fragrant Oil
1.2 Product Code: OFLILYOFTHEVALL
1.3 AUSTRALIAN AICS Name: Not allocated
1.4 USA INCI Name: Fragrance
1.5 EU [CosIng] INCI Name: Parfum
1.6 UN Proper Shipping Name: Not applicable
1.9 UN Technical Shipping Name: Not applicable
1.10 UN Number: Not applicable
1.11 AUSTRALIAN Schedule Name: Not Scheduled
1.12 Recommended Product Use: Cosmetic and aromatherapy ingredient.

Function: Fragrance Ingredient.

Categories: Skin care preparations, miscellaneous; Fragrance preparations, miscellaneous.

- 1.13 Company:** Saffire Blue Inc.
1.14 Address: 1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada
1.15 Telephone Number: Tel: 519-286-0295
1.16 Fax Number:
1.17 Email: info@saffireblue.ca
1.18 Web Site: www.saffireblue.ca



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4 th July 2012
---------------------------------	----------------	---------------------------

SECTION 2 – HAZARDS IDENTIFICATION

**Hazardous according to criteria of NOHSC
Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code**

**Class: C1 Combustible Liquid
NOT A SUSMP Scheduled Poison**

2.1 Risk Symbols:	Xi	Irritant.
2.2 Risk Phrases:	R36	Irritating to eyes.
	R37	Irritating to respiratory system
	R38	Irritating to skin.
	R43	May cause sensitisation by skin contact.
2.3 Safety Phrases:	[S2]	[Keep out of the reach of children].
	S3	Keep in a cool place.
	S7	Keep container tightly closed.
	S13	Keep away from food, drink and animal feeding stuffs.
	S15	Keep away from heat.
	S20	When using, do not eat or drink.
	S23	Do not breathe fumes / vapours.
	S24	Avoid contact with skin.
	S25	Avoid contact with eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of soap and water.
	S29	Do not empty into drains.
	S36	Wear suitable protective clothing.
	S37	Wear suitable gloves.
	S39	Wear eye / face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately [show the label where possible].
	S51	Use only in well-ventilated areas.
	S60	This material and its container must be disposed of as hazardous waste.
	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
	S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
2.4 Other:	S64	If swallowed, rinse mouth with water, [only if the person is conscious]. None identified.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil Revision Date: 4th July 2012

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Proprietary Formulation of Non-Hazardous Ingredients	Not allocated	Not allocated	> 60%
Linalool	78-70-6	201-134-4	< 15%
Benzyl Acetate	140-11-4	205-399-7	< 10%
Amyl Cinnamal	122-40-7	204-541-5	< 9%
Butyl Phenyl Methyl Propional	80-54-6	201-289-8	< 4%
Citronellol	106-22-9	203-375-0	< 2%

SECTION 4 - FIRST AID MEASURES

- 4.1 Eye Contact:** Flush immediately with clean water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately.
- 4.2 Skin Contact:** Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician as necessary.
- 4.3 Inhalation:** Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.
- 4.4 Ingestion:** Do Not induce vomiting. Wash out mouth with water and give water slowly to dilute [as much as casualty can comfortably drink] provided person is conscious. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconsciousness. Contact a physician or local poison control centre immediately. If vomiting occurs, lean patient forward or place on left side [head-down position, if possible] to maintain open airway and prevent aspiration.
- 4.5 For Advice:** Contact a Poisons Information Centre [Phone eg Australia 131126; New Zealand 0800 764 766] or a doctor at once.
- 4.6 Advice to Doctor:** Treat symptomatically. Note the nature of this product.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil Revision Date: 4th July 2012

SECTION 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].

SECTION 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.

SECTION 7 – HANDLING AND STORAGE

- 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. No smoking.
- 7.2 Storage:** 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.
Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Refer to Section 10.
Store in stainless steel drums or amber glass containers.
For short term storage only: epoxy phenolic lined steel drums.
- 7.3 Unsuitable Packaging Materials:** None established.
- 7.4 Special Procedures:** None established.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4 th July 2012
---------------------------------	----------------	---------------------------

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure Limits** There is a blanket recommendation of 10 mg/m³ 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.
- 8.2 Respiratory Protection:** None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
- 8.3 Ventilation Protection:** Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required. General exhaust is recommended.
- 8.4 Eye Protection:** Using goggles or face shield is recommended.
- 8.5 Protective Gloves:** Using chemical resistant gloves is recommended.
- 8.6 Protective Clothing:** Using chemical resistant clothing is recommended.
- 8.7 Protective Equipment:** An eyewash fountain and / or safety shower should be available in the work area.
- 8.8 Special Engineering Controls:** None established.
- 8.9 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**.
- 8.10 Note:** These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance:** Liquid
- 9.2 Odour:** Characteristic
- 9.3 Specific Gravity:** 0.960 to 0.990 @ 20°C
- 9.4 Refractive Index:** 1.464 to 1.484 @ 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:** 92°C [Closed Cup]
- 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 Range:** Not available.
- 9.14 Vapour Pressure:** Not available.
- 9.15 Vapour Density:** Not available.
- 9.16 Viscosity:** Not available.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4th July 2012
--	-----------------------	---------------------------------

SECTION 10 – STABILITY AND REACTIVITY
--

10.1 Stability:	Chemically stable, 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.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Health Hazards		
Acute Effects:	Swallowed:	May be harmful.
	Eye:	May be irritating.
	Skin:	May be irritating.
	Inhalation:	May be harmful.
Chronic Effects:		None identified.
Mutagenic Effects:		None identified.
Reproductive Effects:		None identified.
Carcinogenic Effects:		None identified.
Sensitisation:		None identified.
Infectious:		Not applicable.

11.2 Acute Toxicity			
Component	LD50 [Oral]	LD50 [Dermal]	LC50 [Inhalation]
Linalool	2,790 mg/Kg [Rat]. 3,000 mg/Kg [Mouse].	5,610 mg/Kg [Rat]. 5,610 mg/Kg [Rabbit].	Not available.
Benzyl Benzoate	500 mg/Kg [Rat]. 1,400 mg/Kg [Mouse]. 2,240 mg/Kg [Cat]. 1,680 mg/Kg [Rabbit]. 1,000 mg/Kg [Guinea pig].	4,000 mg/Kg [Rat]. 4,000 mg/Kg [Rabbit].	Not available.
Amyl Cinnamal	3,730 mg/Kg [Rat].	Not available.	Not available.
Butyl Phenyl Methyl Propional	1,390 mg/Kg [Rat].	> 2,000 mg/Kg [Rabbit]	Not available.
Citronellol	3,450 mg/Kg [Rat].	2,650 mg/Kg [Rabbit].	Not available.
Lily of the Valley Fragrant Oil	> 1,000 mg/Kg [Estimated from above].	> 3,000 mg/Kg [Estimated from above].	Not available.

11.3 Short Term Toxicity:	Not available.
11.4 Long Term Toxicity:	Not available.
11.5 Human Exposure Tests:	Not available.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4th July 2012
--	-----------------------	---------------------------------

11.6 SCCNFP Allergens Annex III – Cosmetic Directive 2003/15/EC [7th amendment]. Detection Limit 0.001%.					
CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
Amyl Cinnamal:	YES	NO	122-40-7	204-541-5	< 9.0%
Amyl Cinnamyl Alcohol:	YES	NO	101-85-9	202-982-8	Not Detected
Anisyl Alcohol:	NO	YES	1331-81-3	215-561-9	Not Detected
Benzyl Alcohol:	NO	YES	100-51-6	202-859-9	Not Detected
Benzyl Benzoate:	NO	YES	120-51-4	204-402-9	< 0.03%
Benzyl Cinnamate:	NO	YES	103-41-3	203-109-3	Not Detected
Benzyl Salicylate:	NO	YES	118-58-1	204-262-9	Not Detected
Cinnamal:	YES	YES	104-55-2	203-213-9	Not Detected
Cinnamyl Alcohol:	YES	YES	104-54-1	203-212-3	< 0.9%
Citral:	YES	YES	5392-40-5	226-394-6	< 0.2%
Citronellol:	NO	YES	106-22-9	203-375-0	< 2.0%
Coumarin:	NO	YES	91-64-5	Not allocated	Not Detected
Eugenol:	YES	YES	97-53-0	202-589-1	Not Detected
Farnesol:	YES	YES	4602-84-0	225-004-1	Not Detected
Geraniol:	NO	YES	106-24-1	203-377-1	< 0.7%
Hexyl Cinnamal:	YES	NO	101-86-0	202-983-3	Not Detected
Citronellal Hydrate:	YES	NO	107-75-5	203-518-7	< 0.3%
iso-Eugenol:	YES	YES	97-54-1	202-590-7	Not Detected
Butyl Phenyl Methyl Propional:	YES	NO	80-54-6	201-289-8	< 4.0%
Limonene:	YES	YES	5989-27-5	227-813-5	< 0.02%
Linalool:	YES	YES	78-70-6	201-134-4	< 15.0%
Hydroxyisohexyl-3-Cyclohexene Carboxaldehyde	NO	NO	31906-04-4	250-863-4	Not Detected
Methyl Heptin Carbonate:	YES	NO	111-12-6	203-836-6	Not Detected
Methyl Ionone:	YES	NO	127-51-5	204-846-3	Not Detected
Evernia Prunastri Extract [Oakmoss]:	YES	NO	90028-68-5 9000-50-4 68917-10-2	289-861-3 289-860-8	Not Detected
Evernia Furfuracea Extract [Treemoss]:	YES	NO	68648-41-9 68917-40-8		Not Detected

11.7 Additional EFFA Listed Sensitisers & IFRA Notifiable Substances. Detection Limit 0.001%.					
CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
No Additional Sensitisers	NO	NO	Not allocated	Not allocated	Not Detected
No Additional Notifiable Substances	NO	NO	Not allocated	Not allocated	Not Detected



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil Revision Date: 4th July 2012

SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

- 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.

SECTION 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. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb this applies only when the capacity of individual container exceeds 500 Lt], 2.3 [Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
14.2 UN Number: Not allocated.
14.3 Proper Shipping Name: Not Regulated.
14.4 Technical Shipping Name: Not applicable
14.5 DG Class / Subsidiary Risk: Not allocated.
14.6 Packaging Group: Not allocated.
14.7 Special Precautions: None established.
14.8 Hazchem Code: Not allocated.

14.9 Maritime Transportation IMDG 14.10 Air Transportation ICAO-TI and IATA-DGR

Table with 4 columns: Property, Maritime Status, Air Status, and Name. Rows include IMDG Class, Label, UN Number, Packaging Group, EMS Number, Marine Pollutant, Proper Shipping Name, and Technical Shipping Name.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4 th July 2012
---------------------------------	----------------	---------------------------

SECTION 15 – REGULATORY INFORMATION

- | | | |
|----------------------------------|-----------|---|
| 15.1 SUSMP Schedule: | | Not Scheduled. |
| 15.2 SUSMP Name: | | Not allocated. |
| 15.3 Warning Statements: | | Not allocated. |
| 15.4 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. |
| 15.5 Standard Statements: | A | For advice, contact a Poisons Information Centre [Phone eg Australia 131126; New Zealand 0800 764 766] or a doctor at once. |
| | G3 | If swallowed, do NOT induce vomiting. |
| 15.6 AICS: | | This product's ingredients are listed on the Public AICS Database. |

16. ADDITIONAL INFORMATION**16.1 Revision Date:** 4th July 2012**16.2 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.

16.3 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.



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4 th July 2012
---------------------------------	----------------	---------------------------

16.4 ACRONYMS

<	less than
>	greater than
°C	degrees Celsius
ACCC	Australian Competition and Consumer Commission
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
ACGIH	American Conference of Governmental Industrial Hygienists
AS	Australian Standard
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (Registry Number)
cm ³	cubic centimetres
COD	Chemical Oxygen Demand
CosIng	The European Commission databasewith information on Cosmetic Ingredients & Substances
DG	Dangerous Goods
EFFA	European Flavour Association
EINECS	European Inventory of Existing Commercial Chemical Substances (Identifying Number)
EU	Europe / European
g	gram
GMO	Genetically modified organism
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
Hr	Hour
HSIS	The Safe Work Australia Hazardous Substances Information System
IATA	The International Air Transport Association
ICAO	The International Civil Aviation Organization
IFRA	The International Fragrance Association
IMDG	International Maritime Dangerous Goods
INCI	The International Nomenclature of Cosmetic Ingredients
kg	kilogram
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. This is normally quoted in mg/kg body weight.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. This is normally quoted in mg/kg body weight.
LDLo	LDLO stands for Lethal Dose Low, the minimum amount of a material which tests have shown will be lethal to a specified type of animal. This is normally quoted in mg/kg body weight.
Lt	Litre



MATERIAL SAFETY DATA SHEET

Lily of the Valley Fragrant Oil	Revision Date:	4 th July 2012
---------------------------------	----------------	---------------------------

16.5 ACRONYMS Continued

Max.	maximum
mg	milligram
Min.	minimum
ml	millilitre
m³	cubic metre
mm	millimetre
mm Hg	millimetre of Mercury
MSDS	Material Safety Data Sheet
N/A	Not Applicable
NICNAS	The National Industrial Chemicals Notification and Assessment Scheme (AUSTRALIA)
NIOSH	The National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (AUSTRALIA)
n.o.s.	Not otherwise specified
NZS	New Zealand Standard
OECD	Organization for Economic Co-operation and Development (Test Method number)
OSHA	The Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million
RTECS	The Registry of Toxic Effects of Chemical Substances
SCCNFP	Scientific Committee on Cosmetic Products and Non-Food Products (EUROPE)
STEL	Short Term Exposure Limit
SUSMP	Standard for the Uniform Scheduling of Medicine & Poisons (AUSTRALIA)
TD	TD stands for Toxic Dose. TD is the amount of a material, given all at once, which causes the untoward symptoms in the majority of persons, or in the majority of a group of test animals. This is normally quoted in mg/kg body weight.
TGA	Therapeutic Goods Administration (AUSTRALIA)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (number)
USA	The United States of America
µg	microgram
µl	microlitre

16.8 Data Sources: AICS; Australian Code for the Transport of Dangerous Goods by Road & Rail; CosIng; Supplier Documentation; ECHA; HSIS; IATA Dangerous Goods Regulations; IFRA; IMDG Code; The International Cosmetic Ingredient Dictionary and Handbook; NICNAS; SUSMP.