



MATERIAL SAFETY DATA SHEET

Cocoa Absolute

Version: 01

Date Implemented: April 2009

Hazardous according to criteria of Worksafe Australia

1. COMPANY DETAILS

1.1 Company: Saffire Blue Inc.
1.2 Address: 1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada
1.3 Telephone Number: Tel: 519-286-0295
1.4 Fax Number:
1.5 Email: info@saffireblue.ca
1.6 Web Site: www.saffireblue.ca

2. PRODUCT IDENTIFICATION AND COMPOSITION

2.1 Product Name: **Cocoa Absolute**
2.2 Botanical Name: *Theobroma cacao*
2.3 Product Code: OACOCO
2.4 USA INCI Name: Not allocated
2.5 EU INCI Name: Not allocated

2.6 Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Alcohol	64-17-5	200-578-6	70%
Cocoa Extract	84649-99-0	283-480-6	30%

2.7 Uses: Fragrance Ingredient.
Skin care preparations, miscellaneous.



MATERIAL SAFETY DATA SHEET

Cocoa Absolute Version: 01 Date Implemented: April 2009

3. HAZARD IDENTIFICATION

3.1 Physical - Chemical Hazards

Explosion: None identified.
Flammable: Flammable liquid, produces oxides of carbon when burning.
Oxidizing: Not applicable.
Toxic: None identified.
Radioactive: Not applicable.
Corrosive: None identified.
Miscellaneous: None identified.

3.2 Environmental Hazards: None identified.

3.3 Health Hazards

Acute Effects: Swallowed: Harmful, May cause lung damage if swallowed.
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.

4. FIRST AID

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 Contact Point: Poisons Information Centre Sydney [T] 131126
4.6 Advice to Doctor: Treat symptomatically. Note the nature of this product.



MATERIAL SAFETY DATA SHEET

Cocoa Absolute

Version: 01

Date Implemented: April 2009

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. No smoking.
7.2 Storage: Hazardous material. Not a Scheduled 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. 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: Protect against electrostatic charges, Others not established.



MATERIAL SAFETY DATA SHEET

Cocoa Absolute

Version: 01

Date Implemented: April 2009

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. Local exhaust meeting ACGIH criteria is required. 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

TEST	SPECIFICATION
9.1 Appearance:	Dark brown liquid [maybe cloudy with sediment]
9.2 Odour:	Characteristic cocoa aroma
Odour Threshold:	Not available.
9.3 Specific Gravity:	0.885 to 0.910 @ 20°C
9.4 Refractive Index:	1.3870 to 1.4070 @ 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:	23°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 Point:	Not available.
9.14 Vapour Pressure:	Not available.
9.15 Vapour Density:	Not available.



MATERIAL SAFETY DATA SHEET

Cocoa Absolute Version: 01 Date Implemented: April 2009

9.16 ECHA Listed Sensitisers & IFRA Notifiable Substances					
CONSTITUENT	IFRA	ECHA	CAS Number	EINECS Number	RANGE
<i>p</i> -Anisyl Alcohol	NO	YES	105-13-5	203-273-6	< 0.010%
Benzyl Alcohol:	NO	YES	100-51-6	202-859-9	< 0.010%
Benzyl Benzoate:	NO	YES	120-51-4	204-402-9	< 0.010%
Benzyl Cinnamate:	NO	YES	103-41-3	203-109-3	< 0.010%
Benzyl Salicylate:	NO	YES	118-58-1	204-262-9	< 0.010%
Cinnamal:	YES	YES	104-55-2	203-213-9	< 0.010%
Cinnamyl Alcohol:	YES	YES	104-54-1	203-212-3	< 0.010%
Citral:	YES	YES	5392-40-5	226-394-6	< 0.010%
Citronellol:	NO	YES	106-22-9	203-375-0	< 0.010%
Coumarin:	NO	YES	91-64-5	Not allocated	< 0.010%
Limonene:	YES	YES	138-86-3	205-341-0	< 0.010%
Eugenol:	YES	YES	97-53-0	202-589-1	< 0.010%
Farnesol:	YES	YES	4602-84-0	225-004-1	< 0.010%
Geraniol:	NO	YES	106-24-1	203-377-1	< 0.010%
iso-Eugenol:	YES	YES	97-54-1	202-590-7	< 0.010%
Linalool:	YES	YES	78-70-6	201-134-4	< 0.010%

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:	Flammable 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.



MATERIAL SAFETY DATA SHEET

Cocoa Absolute	Version: 01	Date Implemented: April 2009
----------------	-------------	------------------------------

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.

14. TRANSPORT INFORMATION

- 14.1 Transportation:** Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code for Transport by Road and Rail. Transport as per the "Australian Dangerous Goods Code" for Class 3 [Flammable Liquids], Packaging Group III Substances. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb this applies only when in bulk], 2.3 [Poisonous Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
- 14.2 Proper Shipping Name:** Extracts, aromatic, liquid
- 14.3 UN Number:** 1169
- 14.4 Packaging Group:** III
- 14.5 DG Class:** Class 3
- 14.6 Poison Schedule:** Not Scheduled.
- 14.7 Hazchem Code:** 3[Y]

14.8 Maritime Transportation IMDG		14.9 Air Transportation ICAO-TI and IATA-DGR	
IMDG Class:	3	ICAO / IATA Class:	3
Label:	3	Label:	3
UN Number:	1169	UN Number:	1169
Packaging Group:	III	Packaging Group:	III
EMS Number:	Not allocated.		
Marine Pollutant:	Not allocated.		
Proper Shipping Name:	Extracts, aromatic, liquid	Proper Shipping Name:	Extracts, aromatic, liquid



MATERIAL SAFETY DATA SHEET

Cocoa Absolute

Version: 01

Date Implemented: April 2009

15. REGULATORY INFORMATION

15.1 Risk Symbols:	Xn	Harmful.
	F	Flammable.
15.2 Risk Phrases:	R10	Flammable.
	R22	Harmful if swallowed.
	R44	Risk of explosion if heated under confinement.
	R65	Harmful: may cause lung damage if swallowed.
15.3 Safety Phrases:	[S2]	[Keep out of the reach of children].
	S3	Keep in a cool place.
	S7	Keep container tightly closed.
	S15	Keep away from heat.
	S16	Keep away from sources of ignition – No smoking.
	S29	Do not empty into drains.
	S33	Take precautionary measures against static discharges.
	S41	In case of fire and / or explosion do not breathe fumes.
	S43	In case of fire use Carbon Dioxide; Dry Chemical; Universal-Type Foam. Never use water jets.
	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.
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.



SAFFIRE BLUE INC.

MATERIAL SAFETY DATA SHEET

Cocoa Absolute

Version: 01

Date Implemented: April 2009

16. ADDITIONAL INFORMATION

16.1 GMO DECLARATION

The Cocoa Absolute is obtained from the beans of the cacao tree variety *Theobroma cacao*, by the process of alcohol extraction.

The alcohol is fermented from sugar beet and concentrated by distillation and is GMO free.

It is exclusively gained from non-GMO grown cacao trees and is free of any GMO-Fragments.

It is grown, harvested and processed within the strict principles of creating animal free products.

It conforms to the specifications of GMO Free, Cocoa Absolute.

It contains No Animal Products.

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.