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MATERIAL SAFETY DATA SHEET

ARNICA FLOWER TOTAL CO2 EXTRACT

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION		
Product Name:	ARNICA FLOWER TOTAL CO2 EXTRACT	
Product Use:	Personal Care Formulations	
Company Name:	Saffire Blue Inc.	
Company Address:	1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada	
Date Issued:	05/25/2010	
Emergency Telephone Number:	Chemtrec Tel: (800) 262-8200	
2. COMPOSITION/INGREDIENT INFORMATION		
Ingredients:	Helianthus annus Seed Oil; CAS No: 8001-21-6 EC No: 232-273-9 and Arnica Montana Flower Total CO2 Extract; CAS No: 68990-11-4 EC No: 273-579-2	
INCI: Helianthus annus Seed Oil (and) Arnica Montana Flower Extract [CO2]		
Contains:	Essential Oil: 0.2-0.4% Triterpenediol Esters: 2.0-4.5% Total Content of Sesquiterpene Lactones: 3.5-4.5% Helenalin: <0.02% 11 α, 13 dihydrohelenalin: < 0.05% Helenalin- and Dihydrohelenalinester: 3.0-5.0%	
Further Information:	No Solvent Residues	
3. HAZARDS IDENTIFICATION		
Classifications:	Indications of Danger: Harmful R Phrases: Harmful if swallowed Hazard Statements: Harmful if swallowed	
Explication of Special Hazards for Human Health and Environment:	Special skid risk by leaking/spilling product.	
4. FIRST AID MEASURES		
Eyes:	Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.	
Skin:	Wash with soap and water- get medical attention if irritation persists.	
Ingestion:	Rinse mouth immediately and drink large quantities of water.	
Inhalation:	Remove to fresh air.	
Medical Conditions Generally Aggravated by Exposure:	None	

5. FIRE FIGHTING MEASURES	Dry Chamical Carbon Diavida Farm	
Extinguishing Media:	 Dry Chemical, Carbon Dioxide, Foam Do Not Use Water Except to Cool Containers. 	
Special Firefighting Procedures:	Cool containers exposed to flame with water. In case of fire, wear	
	self-contained breathing apparatus.	
Unusual Fire & Explosion Hazards:	Formation of dangerous fumes possible.	
6. ACCIDENTAL RELEASE MEASURES		
Personal Protection:	Avoid contact with skin and eyes, concentrated extracts should not be swallowed.	
Environmental Protection:	Keep away from canalization, waterway, and groundwater.	
Methods for Cleaning Up:	Remove mechanically, placing in appropriate containers for	
5.	disposal.	
7. HANDLING AND STORAGE		
Handling		
Safe Handling:	Avoid contact with skin and eyes, concentrated extracts should	
sare nanunny.	not be swallowed. Wear splash goggles and oil resistant gloves.	
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Storage Requirements for Storage Areas and	Store in a cool, dry location, in a sealed container, away from	
Containers:	sunlight.	
8. EXPOSURE CONTROL/PERSONAL PROTECTION		
Eye:	Wear splash goggles.	
Skin/Body:	Wear oil resistant gloves. Remove contaminated clothing.	
Respiratory:	Do not breathe vapor/aerosol.	
Ventilation:	Area should be well ventilated.	
Other:	Evaluate need based on application.	
Work/Hygiene Practice:	Normal work and hygiene practices	
9. PHYSICAL AND CHEMICAL PROPER		
Physical State:	Viscous liquid	
Color:	Dark Brown	
Odor:	Characteristic	
Flash Point:	> 100°C Abel Pensky	
Density:	<1 g/cm ³ pycnometer	
Solubility in Water:	Insoluble	
Solubility in Other Solvents: Solvent Content:	Good solubility in fat phases No solvent residues	
Solvent Content:	no solvent residues	
10. STABILITY AND REACTIVITY		
Stability:	Stable	
Conditions to Avoid:	Heat, open flame and sunlight	
Hazardous Decomposition or		
Byproducts:	None when carefully used	
Hazardous Polymerization:	Will Not Occur	

11. TOXICOLOGICAL INFORMATION	
Acute Toxicity:	LD50 Helenalin Oral 125 mg/kg [Rat] LD50 Helenalin Oral 90 mg/kg [Rabbit] LD50 11,13 dihydrohelenalin (not stated) 90 mg/kg [Rabbit]
	Frequent or prolonged contact with skin may cause dermal irritation.
Further Information:	Acute toxicity, irritation of the skin and mucous membrane, and mutagenic potential of the preparation assessed by the manufacturer on the basis of the data sheets available on the main components. Information gaps exist on some of the main individual components. However, according to the experience of the manufacturer, no dangers above and beyond those on the product label are to be expected.
12. ECOLOGICAL INFORMATION	
Ecotoxicity:	No data for ecological evaluation on hand. Under appropriate use there are no ecological problems to expect. No heavy metals and inorganic components.
13. DISPOSAL CONSIDERATIONS	
Waste Disposal Methods:	Do not put into sewer lines. Dispose of according to local, state and federal regulations.
14. TRANSPORT INFORMATION	
DOT Classification:	Not a DOT controlled material (USA).
Class/Division:	Not restricted
Proper Shipping Name:	NA
Label:	None
Packing Group:	NA
ID Number:	NA
15. REGULATORY INFORMATION	
	Danger Symbols: Xn Harmful
	Hazardous Components to be Indicated on Label: Helenalin; 11-α,13- Dihydrohelenalin; Helenalin esters and Dihydrohelenalin esters
Labeling According to EC-Guidelines:	R Phrases: 22 - Harmful if swallowed
	S Phrases: 23 - Do not breathe vapors
	Special Labeling for Certain Preparations: Warning – this preparation contains a substance not yet tested completely

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	Signal Word: Warning
GHS Labeling:	Pictogram: Health Hazard
	Hazard Statements: H302: Harmful if swallowed
	Precautionary Statements: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
	P330: Rinse mouth P270: Do not eat, drink or smoke when using this product. P264: Wash hands thoroughly after handling.
National Regulatory Information: Water Contaminating Class D:	1- slightly water contaminating

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only. This product is not considered hazardous under normal conditions.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.