

MATERIAL SAFETY DATA SHEET

1. Product Identification:		
Product Name:	Calamus Root Oil	
Botanical Name:	Acorus calamus	
INCI Name:	Acorus calamus (sweet flag) oil	
CAS #:	8015 – 79 -0	
County of Origin:	Slovenija	

2. Classification:

Chemical Identification: Calamus root essential oil

UN No. 1169: Liquid aromatic extract.

Packaging Group: III

Class: 3

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

3. Hazardous Ingredients Information:

4. Physical & Chemical Properties:

Asarones (78%).

Appearance:	Yellow to yellowish brown slightly viscous liquid.	
Odor:	Characteristic spicy, warm, woody odor.	
Solubility:	Soluble in alcohol and oils. Insoluble in water.	
Specific Gravity:	1.060 – 1.080 @ 25°C	
Optical Rotation:	-2.0 – -6.5 @ 20°C	
Refractive Index:	1.5500 – 1.5525 @ 20°C	
Acid Value:	4.0 (max)	
Total Asarones:	78.0%	
Extraction Method:	Steam distillation of dried comminuted rhizomes.	
Contents:	Asarones, methylisoeugenol, sesquilenes.	

5. Fire/Explosion Hazard:

Flash Point: 85 °C

Flash Point:

Flammable liquid. Will ignite if moderately heated.

6. Reactivity/Stability Data:

Reactivity: Stable.

Decomposition: When heated to decomposition produces acrid fumes and carbon monoxide smoke.

85 °C

7. Toxicological Properties/Information:

1 of 3 08/07/2007 3:17 PM

Asarone has tranquillizing/antibiotic activity, can cause mild hallucinations and is potentially toxic in large doses.

Avoid if pregnant.

8. Preventive Data:

Spillage: Absorb spills, cover with an inert, non-combustible, inorganic absorbent material, and remove to an approved disposal container.

Fire: Recommended extinguishing media – CO₂, foam and dry chemicals. DO NOT use direct water jet on burning material.

Environment: Keep away from drains, surface and ground water.

Storage: Store in cool, dry and well ventilated area protected in tightly closed container away from sources of ignition, heat and sunlight. Keep air contact to minimum.

9. First Aid Measures:

Eye contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

Inhalation: Remove to fresh air. Avoid casual breathing.

Ingestion: Rinse mouth and consult a physician immediately. Never-give anything by mouth if victim is unconscious, is rapidly-losing consciousness, or is convulsing.

Skin contact: Remove contaminated clothing. Wash with soap and plenty of water.

11. Individual Protection:

Use safety glasses.

Avoid breathing in product by ensuring good ventilation when handling.

Avoid skin contact by using chemical resistant gloves.

12. Preparation Information:

Quality Assurance New Directions Aromatics Inc. Brampton ON L7A 1C5

Revision Date: 5th June 2007

Disclaimer

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2 of 3 08/07/2007 3:17 PM

CERTIFICATE OF ANALYSIS

PRODUCT: CALAMUS ROOT ESSENTIAL OIL

PRODUCT NO: 11016 LOT NO: 11016-A01

	Specifications:	Results:
Appearance:	Yellow to yellowish brown slightly viscous liquid.	Complies
Odor:	Characteristic spicy, warm, woody odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.060 – 1.080 @ 25°C	Complies
Optical Rotation:	-2.0 – -6.5 @ 20°C	Complies
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3 of 3