NEW DIRECTIONS AROMATICS

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name:	Spikenard Organic Essential Oil
Botanical Name:	*Nardostachys grandiflora DC*
Synonyms:	*jatamansi, Bhulte*
INCI Name:	Nardostachys chinensis root oil
CAS #:	8022-22-8
Country of Origin:	Nepal

SECTION: 1.2 COMPANY IDENTIFICATION

Company:	New Directions Aromatics Inc.
Address:	6781-Columbus Road, Mississauga, ON. L5T 2G9 Canada
Telephone No:	905-362-1915
FAX:	905-362-1926

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

SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Monoterpenes:	α-pinene, β-pinene, 3,7-guaiadiene
Sesquiterpenes:	δ-aristolene, jatamansone, spirojatamol, β-gurjenene, seychellene, β-elemene, β-selinene, α-guaiene, β-guaiene, α-humulene, valencene, dehydro-aromadendrene
Monoterpene alcohol:	1,8-cineol

SECTION: 3. HAZARDS IDENTIFICATION

Physical-Chemical Hazards:	
	Toxic: None identified
	Stability: Chemically Stable
Environmental Hazard:	Not identified
Health Hazard:	**Eyes:** May cause mild irritation, redness or stinging may occur
	Skin: May cause mild and transient irritation in case of prolonged use.
	Inhalation: May be irritating
	Ingestion: If used as intended, no harm. But, accidental ingestion may cause mild gastro-intestinal irritation with

nausea, vomiting & diarrhoea.

SECTION: 4. FIRST AID MEASURES

Eye Contact:	If contact with eyes occurs hold eyelids apart and flush eyes continuously with running water for at least 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Remove to fresh air. Give oxygen if breathing is difficult. Allow the patient to assume the most comfortable position and keep warm. If individual is not breathing give artificial respiration. Seek medical advice.
Ingestion:	Rinse mouth; dilute with milk or water and consult a physician immediately. Do not induce vomiting. Never-give anything by mouth if victim is unconscious, is rapidly-losing or is convulsing.
Skin Contact:	Skin contact can produce irritation, or itching of the skin. Remove contaminated clothing wash with soap and plenty of water for at least 15 minutes. Apply cold compresses to the affected areas to relieve any discomfort. If swelling, redness, blistering, irritation or any discomfort occurs, seek medical attention.

SECTION: 5. FIRE FIGHTING MEASURES

Flash Point:	85 °C
Extinguishing media:	Carbon Dioxide, water, dry chemical or foam.
Special Procedures:	Closed containers may build up pressure at elevated temperature, explosions may occur. If it is safe, remove containers from the path of the fire. Keep containers cool with water spray.
Unusual Firefighting Hazards:	None identified.
Protective Equipment:	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
Combustion Product:	Carbon Monoxide, Carbon Dioxide and or oxides of nitrogen. Hydrocarbons and / or its derivatives.

SECTION: 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to

	section 8.
Safety Precautions:	Eliminate all ignition sources. Ventilate area. Determine the need to Evacuate or isolate the area according to your local emergency plan.
Environmental Precautions:	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
Methods For Cleaning Up:	Contain and collect with inert absorbent material and place in suitable container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and detergent.

SECTION: 7. HANDLING AND STORAGE

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.
Storage:	Containers should be kept closed in order to minimize contamination. Store in a cool, dry, well ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition Make sure the material does not come into contact with substances listed as: “Materials to Avoid”.

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes Protection:	Chemical safety goggles recommended. Wash contaminated goggles before use.
Respiratory Protection:	Do not breathe vapors. Mechanical exhaust required. In confined areas, use of appropriate respiratory protection may be required (usually, NIOSH approved respirator)
Protective Gloves:	Using chemical resistant gloves is recommended. Wash contaminated gloves before reuse.
Protective Clothing:	Using chemical resistant clothing is recommended.
Protective Equipment:	An eyewash fountain and / or safety shower should be available in the work area. Acceptable industrial hygiene practices should be maintained.
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

Appearance:	Pale yellow / amber / green /deep blue slightly viscous liquid.
Odor:	Heavy, sweet-woody, spicy odor.
Solubility:	Soluble in alcohol and oils. Insoluble in water.
Specific Gravity:	0.890 – 0.980 @ 20°C
Optical Rotation:	-
Refractive Index:	1.456 – 1.466 @ 20°C
Extraction Method:	Steam distillation of dried roots.

SECTION: 10. STABILITY AND REACTIVITY

Stability:	Chemically stable. This material presents no significant reactivity hazard.
Conditions to Avoid:	Avoid sparks, flame and excessive heat.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Polymerization:	Will not occur.
Hazardous Combustion:	Carbon monoxide, carbon dioxide and other organic compounds may be formed.
Other hazardous reactions:	Heating causes expansion or decomposition of material; heating could also lead to container exploding.

SECTION: 11. TOXICOLOGICAL INFORMATION

Acute effects:	Harmful if ingested; can cause nausea, vomiting, diarrhea & abdominal pain. Irritating to eyes, respiratory system & skin (dermatitis). May cause sensitization by skin contact. On inhalation, irritant to mucous membrane of respiratory tract.
Chronic effects:	May cause allergic reaction on skin

SECTION: 12. ECOLOGICAL INFORMATION

Very toxic to aquatic organism may cause long-term adverse effects in the aquatic environment.

Avoid any pollution of ground, surface or underground water.

SECTION: 13. DISPOSAL CONSIDERATION

Dispose of in accordance with local, provincial or state and federal regulations. Check with disposal expert to ensure compliance.

SECTION: 14. TRANSPORT INFORMATION

US DOT Shipping Description:	Not regulated
IATA Shipping (Air):	Not regulated
IMDG Shipping Description:	Not regulated

SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada):	Class 3
HMIS (USA):	Health Hazard – Fire Hazard – Reactivity –
SARA 302/ SARA 313:	None

EU Labeling:	Risk symbols:	
	Xi	Irritant
	F	Flammable
	Risk phases:	
	R10	Flammable
	R36	Irritating to eyes
	R37	Irritating to respiratory system
	R38	Irritating to skin
	R44	Risk of explosion if heated under confinement.
	Safety phrases	
	S2:	Keep out of reach of children.
	S3	Keep in a cool place
	S36/37/38	Wear suitable protective clothing, gloves and eye/face protection.
	S43	In case of fire use Carbon Dioxide; Dry Chemical;

	Universal-Type Foam. Never use water jets.
S51	Use only in well-ventilated areas.

SECTION: 16. OTHER INFORMATION

Revision Date: February 18, 2015

SECTION: 17. DISCLAIMER

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