SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ginger essential oil
EINECS no: n/a
FDA no: n/a
Latin Name: Zingiber officinale
Country: Madagascar
Recommended Use: Cosmetics, essential oil therapy, aromatherapy etc. For external use only.

SUPPLIER:
Aromatics International
247 Westgate Way
Florence, Montana 59833
Phone: 406-273-9833
Fax: 406-273-9898

Emergency Phone Number: National Poison Control Center (all times) 1-412-681-6669

2. HAZARDS IDENTIFICATION

Concentrated product. Do not ingest, use good housekeeping procedures when handling.
May cause irritation to the eyes and skin.
May be fatal if swallowed and enters airways.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
CHEMICAL IDENTITY: n/a
COMMON NAME: Ginger essential oil
CAS NUMBER: 8007-08-7
Representative dangerous substances:
(In a sufficiently high concentration to give it the toxicological properties that it would have in 100% pure state.)
No known substances in this category.

Other dangerous substances.

Substances in a concentration below the minimum danger threshold.
No known substances in this category.

Other substances with occupational exposure limit values
No known substances in this category.

4. FIRST AID MEASURES

INHALATION: Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
EYE CONTACT: Flush with plenty of water for at least 15 minutes. Contact a doctor immediately.
SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION: Rinse mouth out with water. Administer water or milk to dilute. Seek medical advice immediately.
SYMPTOMS AND SIDE EFFECTS: n/a

If in doubt or if the symptoms persist, always consult a Physician. NEVER give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA RECOMMENDED: Use CO2, Dry Powder or Foam type Extinguishers, spraying 1 extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES: Avoid vapor inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. ACCIDENTAL RELEASE MEASURES

Refer to the protection procedures listed in items 7 & 8.
Contain and absorb leaks with non-combustible absorbent materials i.e. sand, soil. Contain spillage with sawdust, remove to an approved disposal container. Observe state, federal & local disposal regulations.

7. HANDLING AND STORAGE

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke while handling.
STORAGE CONDITIONS: Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum. Use only equipment resistant to vegetable oils, avoid leaks, ensure it does not soak into floor.
FIRE PROTECTION: Keep away from ignition sources & avoid contact with flames. Take precautions to avoid static discharges in working area.
8. **EXPOSURE CONTROLS/PERSONAL PROTECTION.**
RESPIRATORY PROTECTION: Respiratory protection is normally not required in well ventilated areas. However, NIOSH approved respiratory protection may be required when the material is to be used in a confined area.
VENTILATION: Ventilation meeting ACGIH standards should be employed.
HAND PROTECTION: Chemically resistant gloves are recommended.
EYE PROTECTION: Use safety glasses.
WORK/HYGIENE PRACTICES: Wash hands with soap & water after handling.

9. **PHYSICAL & CHEMICAL PROPERTIES.**
APPEARANCE: clear to yellow liquid
ODOR: warm, balsamic, lemony, spicy, sweet, woodsly
THRESHOLD: n/a
SPECIFIC GRAVITY: n/a
REFRACTIVE INDEX: n/a
FLASH POINT: n/a
OPTICAL ROTATION: n/a
RELATIVE DENSITY: n/a
MELTING/FREEZING POINT: n/a
INITIAL BOILING POINT AND RANGE: n/a
EVAPORATION RATE: n/a
FLAMMABILITY: n/a
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: n/a
VAPOR PRESSURE: n/a
VAPOR DENSITY: n/a
SOLUBILITY: in alcohol
AUTO IGNITION: n/a
DECOMPOSITION TEMPERATURE: n/a

10. **STABILITY & REACTIVITY.**
REACTIVITY:
Stable under the recommended handling and storage conditions (see item 7)
It contains no hazardous decomposition products or significant reactivity hazards. Avoid heat or strong oxidizers.
CHEMICAL STABILITY: Stable at standard temperature.
POSSIBILITY OF HAZARDOUS REACTIONS: n/a
CONDITIONS TO AVOID: n/a
INCOMPATIBLE MATERIALS: n/a
HAZARDOUS DECOMPOSITION PRODUCTS: n/a

11. **TOXICOLOGICAL INFORMATION.**
Oral LD50:  5.0g/Kg  This product is not intended for oral use.
Dermal LD50:  5.0g/Kg

LD50 dosage levels are only a guideline obtained from historical data, products aren’t tested on animals.
12. ECOLOGICAL INFORMATION.
ECOTOXICITY:
Biodegradable and unlikely to accumulate in the aquatic environment. Discharge of large quantities into aquatic environment may kill fish and other aquatic organisms by oxygen depletion.
PERSISTENCE AND DEGRADABILITY: n/a
BIOACCUMULATIVE POTENTIAL: n/a
MOBILITY IN SOIL: n/a
OTHER ADVERSE EFFECTS: n/a

13. DISPOSAL CONSIDERATIONS.
Do not pour into drains or into water sources. Seek expert advice.

14. TRANSPORT INFORMATION
UN NUMBER: n/a
UN PROPER SHIPPING NAME: n/a
TRANSPORT HAZARD CLASS(ES): n/a
PACKING GROUP: n/a
ENVIRONMENTAL HAZARDS: n/a
TRANSPORT IN BULK: n/a
SPECIAL PRECAUTIONS: n/a

15. REGULATORY INFORMATION
no data available

16. OTHER INFORMATION
PACKAGING: Suitable for glass, Aluminum, F/HDPE. Do not use other plastics.
SHELF LIFE: When stored under optimal conditions - a dark and cool environment - approximately 4-5 years from distillation.
QUALITY ASSURANCE:
As the users’ conditions of work are not known, the information contained in this Safety Data Sheet is accurate to the best of our knowledge and is based on the national community regulations. The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its’ correctness or accuracy. It is the user’s responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.