



RV INTERNATIONAL

Essential Oils Manufacturer & Bulk Supplier in India

GST NO. 06BGIPG9360E1ZF

Address: Opposite Sudhanshu Maharaj Ashram, Shiv Mandir, Nimbri, Panipat, Haryana 132104

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1.1 — PRODUCT IDENTIFICATION

PRODUCT NAME: GARLIC ESSENTIAL OIL

BOTANICAL NAME: Allium sativum

COMMON NAMES: Garlic Oil / Lahsun Oil / Rason Oil

MOLECULAR FORMULA: NOT APPLICABLE

MOLECULAR WEIGHT: NOT APPLICABLE

CAS No.: 8008-99-9

FEMA No.: 2503

SECTION 1.2 — COMPANY IDENTIFICATION

Company Name: RV International

Address: Shiv Mandir, Ujha Rd, Opposite Sudhanshu Aashram, Nimbri, Panipat, Haryana 132104

Telephone: +91 8937003005

Email: info@rvorganica.com

Website: www.rvorganica.com

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	HAZARDOUS STATEMENT
GARLIC ESSENTIAL OIL (Allium sativum)	8008-99-9	Contains allicin & organosulphur compounds — use with caution

HAZARDOUS CLASSIFICATION: NOT A HAZARDOUS SUBSTANCE UNDER NORMAL DILUTED COSMETIC USE — REQUIRES CAUTION DUE TO ORGANOSULPHUR CONTENT.

*PERSONAL CARE & COSMETIC PURPOSE. Garlic essential oil is steam distilled from the crushed bulbs of Allium sativum. It is one of the most pungent essential oils, composed almost entirely of organosulphur compounds — principally allicin, diallyl disulphide, diallyl trisulphide, and allyl propyl disulphide. Garlic oil has a long history in traditional medicine and is highly valued in aromatherapy and natural cosmetics for its potent antimicrobial and therapeutic properties. Due to its extreme pungency, it must always be used in very high dilution.

SECTION 3: HAZARD IDENTIFICATION

Garlic essential oil requires significant caution due to its high concentration of reactive organosulphur compounds.

Eye Contact: Strong irritant — will cause significant irritation; avoid all direct contact



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Skin Contact: Strong irritant when undiluted — organosulphur compounds cause irritation and potential burns; always dilute heavily before skin use

Inhalation: Extremely pungent — may cause irritation to respiratory mucosa in concentrated form; use only in well-ventilated areas

Ingestion: TOXIC in significant quantities. NOT FOR INTERNAL USE as a cosmetic product.

SECTION 4: FIRST AID MEASURES

Eyes: Flush immediately with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if burns or persistent irritation occur.

Ingestion: Rinse mouth and drink water to dilute. Seek medical attention if large quantities ingested.

Inhalation: Remove to fresh air immediately. Seek medical attention if respiratory symptoms persist.

SECTION 5: FIRE AND EXPLOSION DATA

Flash Point (Method Used): >72°C Close Cup

Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam

Unsuitable Media: Water (except to cool containers)

Special Firefighting Procedures: Fire fighters should wear positive pressure self-contained breathing apparatus. Toxic sulphurous vapors may be released on combustion. Cool containers with water.

Unusual Fire & Explosion Hazards: Sulphurous compounds may release toxic fumes on combustion

Hazardous Decomposition Materials: Sulphur dioxide and other sulphur compounds on combustion

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear chemical resistant gloves, eye protection, and apron. Avoid inhalation. Ventilate area thoroughly — extremely pungent aroma.

Methods for Cleaning Up: Eliminate all sources of ignition. Ventilate area thoroughly. Prevent liquid from entering sewers.

- Small spills: wipe up with paper rags (place in closed metal waste container)
- Large spills: absorb onto non-flammable absorbent. Wash area with soap and water. Open windows — aroma persists.

SECTION 7: HANDLING AND STORAGE

Safe Handling: Avoid ingestion and direct skin contact when undiluted. ALWAYS dilute heavily — garlic oil should never be applied to skin at more than 0.5–1% dilution. Wear gloves when handling. Use only in well-ventilated areas. Keep containers tightly sealed at all times — aroma is extremely pervasive.

Storage Requirements: Store in a cool, dark, dry, well-ventilated area. Keep tightly sealed at all times — the aroma will permeate through poorly sealed containers. Temperature below 25°C.



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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Threshold Limit Value: Not established; allicin: use with extreme care

Work Practice Controls: Strict personal hygiene and handling protocols required.

- Keep container tightly sealed at ALL times — aroma is extremely pervasive and penetrating
- Use only in well-ventilated areas
- Wear chemical resistant gloves — organosulphur compounds are strong irritants
- Wash hands very thoroughly after handling — aroma transfers easily

Respiratory: Avoid concentrated vapor inhalation — use in well-ventilated spaces only

Ventilation: Strong local mechanical exhaust recommended when handling in bulk

Eye: Wear chemical goggles or safety glasses

Skin: Wear chemical resistant gloves — organosulphur compounds irritate and burn skin

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid, Oil

Color: Pale Yellow to Amber

Odor: Characteristic intensely pungent, sulphurous, characteristic garlic scent

Vapor Pressure (mmHg.): Not available

Flash Point: >72°C (Closed Cup)

Boiling Point: Not available

Melting Point: NA

Density @25°C: 1.058

Refractive Index @25°C: 1.556

Solubility in Water: Slightly soluble; fully soluble in alcohol and fixed oils

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions; allicin degrades over time — keep tightly sealed and cool

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents and hot sources of ignition.

Conditions to Avoid: Avoid contact with sparks, flame, and heat.

Hazardous Decomposition By-products: Sulphur dioxide and other sulphurous compounds on combustion.

Hazardous Polymerization: Will Not Occur

SECTION 11: TOXICOLOGICAL INFORMATION



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CAUTION: Garlic oil is a strong irritant due to organosulphur compounds. Must be used at very high dilution only. NOT FOR INTERNAL USE as a cosmetic product.

Primary Components of Concern: Allicin (strong irritant; reactive), Diallyl Disulphide, Diallyl Trisulphide, Allyl Propyl Disulphide

Irritancy: STRONG irritant when undiluted — can cause burns on prolonged skin contact

Sensitization: May cause sensitization — organosulphur compounds are known sensitizers

Allicin Reactivity: Allicin is highly reactive and unstable — degrading over time into other organosulphur compounds

Contraindications: Avoid during pregnancy. Avoid use on infants and young children. Avoid near open wounds.

Max Skin Use Level: Recommended maximum 0.5% for leave-on products; maximum 1% for rinse-off

Note: Garlic oil must always be used heavily diluted. Even in dilution, the aroma is very persistent and will transfer to skin and clothing. Patch test essential before skin use. Keep completely out of reach of children.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic life with long lasting effects. Dispose of responsibly.

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Methods: Dispose of according to local, state and federal regulations. Do not pour down drains.

SECTION 14: OTHER REGULATORY INFORMATION

CAS NO: 8008-99-9

FEMA No.: 2503

Primary Hazardous Constituents: Allicin, Diallyl Disulphide (DADS), Diallyl Trisulphide (DATS), Allyl Propyl Disulphide

Max Skin Use Level: 0.5% leave-on; 1% rinse-off

Hazards: Strong irritant; sensitizer; extremely pungent

Safety Phrases: ALWAYS dilute to 0.5% or less for skin use. Wear gloves. Keep tightly sealed. NOT for internal use. NOT during pregnancy. NOT for children. Patch test before use.

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of RV International's knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations.



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