



SAFETY DATA SHEET

LINALYL FORMATE

1. IDENTIFICATION

Product Description: LINALYL FORMATE
CAS # 115-99-1
Other means of identification
Qaroma Item # 1032824
Recommended use For R&D use only. Not for medicinal, household, or other use.

Recommended restrictions For Manufacturing Use Only

Company

Qaroma Incorporated
8055 TX-60 S
Bay City, TX, 77414
call: 979-244-0100

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	Qaroma Incorporated		
Address	8055 TX-60 S Bay City, TX, 77414 United States		
Telephone	For information call:	979-244-0100	
E-mail	ehsbc@chemicalsinc.com		
Emergency phone number	979-244-0100		

2. HAZARD(S) IDENTIFICATION

HAZARDS

Flammable liquids (Category 4), H227
Combustible liquid.

PRECAUTIONS

P210 Keep out from ignition sources
P272 Neat work clothes
P280 Wear proper PPE
Use appropriate fire extinguisher during fire
Store in a well-ventilated place.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common names and synonyms	CAS number	Concentration(%)
3,7-dimethylocta-1,6-dien-3-yl formate	LINALYL FORMATE, LINALOOL FORMATE	115-99-1	95-100

4. FIRST-AID MEASURES

Inhalation	If inhaled, move a person into fresh air.
Skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Eye contact	Flush the eyes with plenty of fresh water. Get medical assistance immediately
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Symptoms	No data
Indication of immediate medical attention and special treatment needed	Not available.
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance
symptoms/effects	No data

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Indication of immediate medical attention and special treatment needed Not available.

General information Provide all the necessary documents regarding this chemical to the physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical Carbon oxides, Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors is possible in the event of fire.

Special protective equipment and precautions for firefighters No Data

Firefighting equipment/instructions Wear self-contained breathing apparatus for firefighting if necessary.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No Data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures Advice for non-emergency personnel: Do not breathe vapors or aerosols. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Methods and materials for containment and cleaning up Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.

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Environmental precautions Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate the water.

7. HANDLING AND STORAGE

Precautions for safe handling Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Store in a cool, well-ventilated area. Storage class (TRGS 510): 10: Combustible liquids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ingredients with workplace

control parameters Contains no substances with occupational exposure limit values.

Occupational Exposure limit values No Data available

Biological limit values No Data available

Individual protection measures, such as personal protective equipment

Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Face shield is recommended.

Skin protection Wear impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Hand protectionOther Chemical resistant gloves.

Respiratory protection Respiratory protection is not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards No Data available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless Liquid.
Physical state	Liquid.
Purity(%)	95 to 100
Color	Colorless.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	100 - 103 °C 212 - 217 °F at 13 hPa - lit.
Flash point	86 °C (187 °F) - closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not available.
Molecular formula	C ₁₁ H ₁₈ O ₂
Oxidizing properties	Not available.
Specific gravity	0.92 @ 25°C

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10. STABILITY AND REACTIVITY

Reactivity Chemical stability	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical Stability	Stable under ambient temperature(Room temperature).
Possibility of hazardous reactions	No Data available
Conditions to avoid	Strong heating.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	in the event of fire : see section 5

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No Data available.
Skin contact	No Data available.
Eye contact	No Data available.
Ingestion	No Data available.

Symptoms related to the physical, chemical, and toxicological characteristics No Data available.

Information on toxicological effects

Acute toxicity No Data available.

Additional Information RTECS: RG5925600

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity No Data available.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects No Data Availabe.



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13. DISPOSAL

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Waste from residues	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner
Contaminated packaging	Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. TRANSPORTATION

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

DOT BULK

NA-Number: 1993 Class: NONE Packing group: III
Proper shipping name: Combustible liquid, n.o.s. (Linalyl formate)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No
Packaging exceptions: 150
Packaging bulk: 241
Labels Required: 3

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.



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15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous chemical

Yes

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not Regulated

Safe Drinking Water Act (SDWA)

Not regulated