

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Geranylgeraniol

Product ID G1869

Chemical Name

all trans-3,7,11-15-Tetramethyl-2,6,10,14-hexadecatetraen- 1-ol

(Synonyms)

LKT Laboratories, Inc.

545 Phalen Blvd. Supplier

St. Paul, MN 55130 USA

Ph: 651-644-8424 Fax: 651-644-8357 www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone # 1-800-424-9300

Section 2. Hazards Identification

GHS Classification Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

GHS Label elements including precautionary statements

Pictogram



Warning

Signal word

Hazard and precautionary statements

Hazard statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

Precautionary statements

P261 - Avoid breathing dust, fumes, gas, mist, vapors, spray.

P264 - Wash skin thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, eye protection and face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.

P321 - Specific treatment (see supplemental first aid instructions on this label). P332 + P313 - If skin irritation occurs: Get medical advice/ attention.

P337 + P313 - If eye irritation persists: Get medical advice/ attention.

P362 - Take off contaminated clothing and wash before reuse.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents / container to an approved waste disposal plant.

HMIS Classification Health hazard: 0

Chronic health hazard: * Flammability: 0 Physical hazard: 0

NFPA Rating

Health hazard: 0 Fire hazard: 0 Physical hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes serious eye irritation.

Substances Ingredient: Title Compound Percent: 100

Formula Formula Wt. 290.49 $C_{20}H_{34}O$

24034-73-9 CAS No. EC No.

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact

Flush eyes with plenty of water for at least 15 minutes and consult a physician.

Skin Contact

Wash off with soap and plenty of water. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give articial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 . Firefighting Measures

Flash Point

Not available.

Carbon oxides.

Extingushing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate

personnel to safe areas.

Environmental Precautions

Do not let product enter drains.

Methods and materials for containment and cleanup Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for

disposal.

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -20°C

Hazardous

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

Decomposition Products

Other Remarks

Ship product with blue ice.

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

PERSONAL PROTECTION

Eye/face protection: Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: 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. Wash and dry

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or ČEN (EU).

Section 9. Physical and Chemical Properties

	common or any crown and common a reporting		
Physical State	Liquid.	Color	Light yellow oil.
Boiling Point	397.1 °C	Volatility	Not available.
Melting Point	Not available.	Density	Not available.
Solubility	Soluble in chloroform, alcohols, acetone or ethyl acetate.	рН	Not available.
Flash Point	Not available.	Ignition temperature	Not available.
Lower explosion limit	Not available.	Autoignition temperature	Not available.
Upper explosion limit	Not available.	Vapor pressure	Not available.
Water solubility	Not available.	Odor	Not available.
Partition coefficient: n-octanol/water	Not available.	Odor Threshold	Not available.
Relative vapor density	Not available.	Evaporation rate	Not available.

Section 10. Stability and Reactivity

Stability

Stable under recommended storage conditions.

Strong oxidizing agents.

Materials To Avoid

Hazardous Hazardous decomposition products formed under fire conditions. - Carbon oxides. Decomposition Products

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

Section 11. Toxicological Information

Oral LD50 Not available. Skin Not available.

corrosion/irritation

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Other information on Not available. Germ cell mutagenicity Not available.

acute toxicity

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Specific organ toxicity Inhalation - May cause respiratory irritation.

Synergistic effects Not available.

single exposure (GHS)

Specific organ toxicity Not available.

Additional Information RTECS: Not available.

repeated exposure (GHS)

Teratogenicity Not available.

Signs and symptoms Not available.

of exposure

Potential Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Health Effects Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eves - Causes serious eve irritation

Eyes - Causes serious eye irritation.
Ingestion - May be harmful if swallowed.

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available. Mobility in soil Not available.

Persistence and degradability Not available.

Other adverse effects Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Dispose of material according to all federal, state and local regulations.

Waste Disposal Offer material to a licensed, professional liquid waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA Not dangerous goods.

IMDG Not dangerous goods.

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components No SARA hazards.

Massachusetts Right No components are subject to the Massachusetts Right to Know Act. To Know Components

Pennsylvania Right Geranylgeraniol CAS #: 24034-73-9 Revision Date: To Know Components

New Jersey Right Geranylgeraniol CAS #: 24034-73-9 Revision Date: To Know Components

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 6/11/2020

For emergencies in the USA, call CHEMTREC 800-424-9300