



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	The health risks of this compound have not been fully determined Exposure may cause irritation of the skin, eyes, and respiratory system.	

Section I. Chemical Product and Company Identification				
Chemical Name	Farnesol [for Perfumery]			
Catalog Number	T0608	Supplier	TCI America 9211 N. Harborgate St.	
Synonym	3,7,11-Trimethyl-2,6,10-dodecatrien-1-ol (for perfumery)		Portland OR 1-800-423-8616	
Chemical Formula	C ₁₅ H ₂₅ OH		Chemtrec® (800) 424-9300 (U.S.)	
CAS Number	4602-84-0	In case of Emergency		
		Call	(703) 527-3887 (International)	

Section II. Composition and Information on Ingredients					
Chemical Name	C	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Farnesol [for Perfumery]		4602-84-0			Rat LD ₅₀ (oral) 6000mg/kg Mouse LD ₅₀ (oral) 7400mg/kg Mouse LD ₅₀ (intraperitoneal) 443mg/kg

Section III.	Hazards Identification
Acute Health Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.
Chronic Health Effect	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITYNot available. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV.	First Aid Measures	
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with runing water for at least 15 minutes. keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper eyelids. Seek medical attention. Treat symptomatically and supportively.	
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thorough wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.	
Inhalation	If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.	
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.	

Section V. Fi	ire and Explosion Data		
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	96.11°C (205°F).	96.11°C (205°F). Flammable Limits	
Combustion Products	These products are toxic carbon oxides (CO, CO ₂).		
Fire Hazards	No specific information is available regarding the flammability of this compound in the presence of various materials.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No additional information is available regarding the risks of explosion.		

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Emergency phone number (800) 424-9300

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Fire Fighting Media and Instructions SMALL FIRE: Use DRY chemicals, CO₂, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Section VI. Accidental Release Measures

Spill Cleanup Instructions

In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information Handle with caution and minimize exposure. Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection

Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



Exposure Limits

Not available.

Section IX. Physical and Chemical Properties					
Physical state @ 20°C	Colorless liquid.	Solubility	Soluble in alcohol: 1:13 in 70% alcohol.		
Specific Gravity	0.888	<u> </u>			
Molecular Weight	222.37	Partition Coefficient	Not available.		
Boiling Point	149°C @ 4mm Hg (300.2°F)	Vapor Pressure	Not available.		
Melting Point	Not available.	Vapor Density	Not available.		
Refractive Index	Not available.	Volatility	Not available.		
Critical Temperature	Not available.	Odor	Flowery odor.		
Viscosity	Not available.	Taste	Weak-citrus-lime taste.		

Section X. Stability and Reactivity Data

Stability This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability Avoid excessive heat and light.

Incompatibilities Reactive with strong oxidizing agents.

Section XI. Toxicological Information

RTECS Number JR4979000

Routes of Exposure Eye contact. Ingestion. Inhalation.

Toxicity Data Rat LD₅₀ (oral) 6000mg/kg

Mouse LD₅₀ (oral) 7400mg/kg

Mouse LD₅₀ (intraperitoneal) 443mg/kg

Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITYNot available.

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or

many human organs

Acute Toxic Effects

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if

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this compound.

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Section XII. **Ecological Information**

> Ecotoxicity Not available.

Not available. **Environmental Fate**

Section XIII. **Disposal Considerations**

Waste Disposal Recycle to process, if possible. Consult your local regional authorities. You may be able to dissove or mix material with a

combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all

federal, state and locl regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification Not a DOT controlled material (United States).

PIN Number Not applicable.

Proper Shipping Name Not applicable.

Packing Group (PG) Not applicable.

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list. TSCA Chemical Inventory

(EPA)

WHMIS Classification Not available.

(Canada)

EINECS Number (EEC) 225-004-1

EEC Risk Statements Not available.

Japanese Regulatory Data

Not available.

Section XVI. Other Information

Version 1.0 Validated on 4/5/2000.

Printed 3/12/2005.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, labovatory, and chemical handler procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations

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