

MATERIAL SAFETY DATA SHEET



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CHEMICAL NAME: GAMMA UNDECALACTONE	HAZARD RATING: 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme LD50 1 g/kg	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Health</td> <td style="width: 50%; text-align: center;">1</td> </tr> <tr> <td>Fire</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health	1	Fire	1	Reactivity	0
Health	1							
Fire	1							
Reactivity	0							

S E C 1	PRODUCT INFORMATION	Synonym: Formula: C ₁₁ H ₂₀ O ₂ OSHA PEL: NA Formula Weight: 184.30 ACGIH TLV: NA	Part Code: 70006 CAS: 104-67-6
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S E C 2	PHYSICAL/CHEMICAL CHARACTERISTICS	Boiling Point: 297°C Vapor Pressure (mm Hg, 20°C): 0.002 Density (g/mL): 0.941-0.944 Water Solubility: Soluble	Vapor Density: NA Evaporation Rate: NA Log K(ow) : NA
		Appearance: Clear liquid, Colorless Odor: Fruity, fragrant, musty, earthy, peach	

S E C 3	FIRE AND EXPLOSION HAZARDS	Flash Point (Closed Cup): 110°C Extinguishing Media: Dry chemical, foam. Avoid waterstream. Special Fire Fighting Procedures: Keep container(s) cool by spraying with water if exposed to fire. Unusual Fire and Explosion Hazards: None known to Fontarôme Chemical, Inc.
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S E C 4	REACTIVITY DATA	Stability: Stable, Hazardous Polymerization will not occur. Incompatibility (Materials to avoid): Contact and contamination with strong acids, alkalis, oxidizing agents. Conditions to avoid: High Temperatures
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S E C 5	HEALTH AND HAZARD DATA	Route(s) of Entry: <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin Carcinogenicity: <input type="checkbox"/> IARC Monographs <input type="checkbox"/> NTP <input type="checkbox"/> OSHA Regulated Health Hazards (Acute and Chronic): May be irritating to skin and eyes. Signs and Symptoms of Exposure: Irritation of skin and eyes. Medical Conditions Generally Aggravated by Exposure: None known to Fontarôme Chemical, Inc. Emergency and First Aid Procedures: Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration. Eye Contact: Flush immediately with clean water for at least 10 minutes. Skin Contact: Remove any affected clothing or shoes. Wash the affected areas thoroughly with soap and water for at least 15 minutes. Ingestion: Give water to dilute. Contact a physician.	This compound is Generally Regarded As Safe (GRAS) for flavor and perfume use.
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S E C 6	PRECAUTIONS FOR SAFE HANDLING AND USE	In case of release or spill: Eliminate all sources of ignition. Ventilate the area. Absorb the spilled material with sand or earth. The use of a self-contained breathing apparatus is recommended. Waste Disposal Method: Place the material and absorbent into sealed containers and dispose in accordance with current applicable laws and regulations. Other Precautions: Eye wash fountain and safety shower should be available.
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S E C 7	CONTROL MEASURES	Respiratory Protection: NIOSH approved respirator, Supplied air or SCBA Eye Protection: Splash Goggle Work/Hygienic Practices: Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash hands after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before reuse.	Protective Gloves: Chemical Resistant Gloves Ventilation: Required at all times Other Protective Equipment: Apron
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While Fontarôme Chemical, Inc. believes the data contained herein is correct, it should not be taken as a warranty or representation for which we assume legal responsibility. This information is provided solely for your consideration, investigation, and verification.

24 Hour Emergency Number: (800) 424-9300