



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table border="1" style="margin: auto;"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center; border: 1px solid black;">2</td> </tr> <tr> <td style="background-color: #FFCCCC;">Fire Hazard</td> <td style="text-align: center; border: 1px solid black;">1</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; border: 1px solid black;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	1	Reactivity	0	
Health Hazard	2							
Fire Hazard	1							
Reactivity	0							
		See Section 15.						

Section 1. Chemical Product and Company Identification		Page Number: 1										
Common Name/Trade Name	Galaxolide 50% Solution in Diethyl Phthalate	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Catalog Number(s).</td> <td>G1438</td> </tr> <tr> <td>CAS#</td> <td>Mixture.</td> </tr> <tr> <td>RTECS</td> <td>Not applicable.</td> </tr> <tr> <td>TSCA</td> <td>TSCA 8(b) inventory: Galaxolide; Diethyl phthalate</td> </tr> <tr> <td>CI#</td> <td>Not available.</td> </tr> </table>	Catalog Number(s).	G1438	CAS#	Mixture.	RTECS	Not applicable.	TSCA	TSCA 8(b) inventory: Galaxolide; Diethyl phthalate	CI#	Not available.
Catalog Number(s).	G1438											
CAS#	Mixture.											
RTECS	Not applicable.											
TSCA	TSCA 8(b) inventory: Galaxolide; Diethyl phthalate											
CI#	Not available.											
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL (310) 516-8000										
Commercial Name(s)	Not available.											
Synonym	Not available.											
Chemical Name	Not applicable.											
Chemical Family	Not available.											
Chemical Formula	Not applicable.											
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248											

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	
1) Galaxolide	1222-05-5				50
2) Diethyl phthalate	84-66-2	5			50
Toxicological Data on Ingredients					
Galaxolide:		DERMAL (LD50): Acute: >5000 mg/kg [Rat].			
Diethyl phthalate:		ORAL (LD50): Acute: 8600 mg/kg [Rat]. 6172 mg/kg [Mouse]. 1000 mg/kg [Rabbit].			

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Diethyl phthalate]. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Diethyl phthalate]. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	The lowest known value is 457.22°C (855°F) (Diethyl phthalate).
Flash Points	The lowest known value is CLOSED CUP: 104°C (219.2° F). (Galaxolide)
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	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.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	When heated to decomposition it emits acid smoke and irritating fumes. (Diethyl phthalate)
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions	Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. 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 stations and safety showers are proximal to the work-station location.
Personal Protection	Safety glasses. Synthetic apron. Gloves (impervious). Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	<p>Diethyl phthalate</p> <p>TWA: 5 (mg/m³) from ACGIH (TLV) [United States] TWA: 5 (mg/m³) from OSHA (PEL) [United States] TWA: 5 (mg/m³) from NIOSH [United States] TWA: 5 STEL: 10 (mg/m³) [United Kingdom (UK)] TWA: 5 STEL: 10 (mg/m³) [Canada]</p> <p>Consult local authorities for acceptable exposure limits.</p>

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	The lowest known value is 129°C (264.2°F) (Galaxolide). Weighted average: 213.5°C (416.3°F)		
Melting Point	May start to solidify at -40.5°C (-40.9°F) based on data for: Diethyl phthalate.		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.06 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	The highest known value is 7.66 (Air = 1) (Diethyl phthalate).		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, diethyl ether, acetone.		
Solubility	Soluble in diethyl ether, acetone. Very slightly soluble in cold water.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, acids.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	May attack some forms of plastic. Incompatible with permanganates, nitric acid. (Diethyl phthalate)
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact.
Toxicity to Animals	Acute oral toxicity (LD50): 1000 mg/kg [Rabbit]. (Diethyl phthalate). Acute dermal toxicity (LD50): >5000 mg/kg [Rat]. (Galaxolide).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Diethyl phthalate]. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Diethyl phthalate]. Contains material which may cause damage to the following organs: liver, central nervous system (CNS).
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Lowest Published Lethal Dose/Conc: LDL [Rat] - Route: Oral; Dose: 3250 mg/kg Other Lethal Dose/Conc: LD [Rabbit] - Route: Skin; Dose: >3250 mg/kg (Galaxolide)
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. (Galaxolide) Passes through the placental barrier in animal. May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic). (Diethyl Phthalate)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes moderate skin irritation. It can be absorbed through the skin. Eyes: Causes eye irritation. May cause lacrimation. Inhalation: Breathing in mist or vapor may cause respiratory tract (nose, throat) irritation. Symptoms may include coughing and hoarseness, and dyspnea. Contact with mist or vapor may cause lacrimation. Inhalation of high concentrations may affect behavior/central nervous system/nervous system (central nervous system depression, headache, dizziness, polyneuropathy, and pain, numbness, weakness, muscle spasms in the arms and legs). Ingestion: Low hazard. Ingestion of large doses may cause gastrointestinal tract irritation. May affect behavior/central nervous system (somnolence, withdraw and other symptoms similar to that of inhalation), metabolism (weight loss). It may also affect the liver. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the liver, metabolism (weight loss), blood (changes in serum composition), urinary system (bladder), behavior (see acute ingestion). May cause pupillary constriction.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

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

Identification Not applicable.

Special Provisions for Transport Not applicable.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Connecticut hazardous material survey.: Diethyl phthalate
 Illinois toxic substances disclosure to employee act: Diethyl phthalate
 Illinois chemical safety act: Diethyl phthalate
 New York release reporting list: Diethyl phthalate
 Rhode Island RTK hazardous substances: Diethyl phthalate
 Pennsylvania RTK: Diethyl phthalate
 Minnesota: Diethyl phthalate
 Massachusetts RTK: Diethyl phthalate
 Massachusetts spill list: Diethyl phthalate
 New Jersey: Diethyl phthalate
 New Jersey spill list: Diethyl phthalate
 Louisiana spill reporting: Diethyl phthalate
 California Director's List of Hazardous Substances: Diethyl Phthalate
 TSCA 8(b) inventory: Galaxolide; Diethyl phthalate
 TSCA 8(a) IUR: Diethyl phthalate
 TSCA 8(d) H and S data reporting: Diethyl phthalate: Effective date: 10/04/82; Sunset Date: 10/04/92
 CERCLA: Hazardous substances.: Diethyl phthalate: 1000 lbs. (453.6 kg);

California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
 For Galaxolide (CAS no. 1222-05-5):
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 214-946-9).
 Canada: Listed on Canadian Domestic Substance List (DSL).
 China: Listed on National Inventory.
 Japan: Listed on National Inventory (ENCS).
 Korea: Listed on National Inventory (KECI).
 Philippines: Listed on National Inventory (PICCS).
 Australia: Listed on AICS.
 For Diethyl Phthalate (CAS no. 84-66-2):
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 201-550-6).
 Canada: Listed on Canadian Domestic Substance List (DSL).
 China: Listed on National Inventory.

Japan: Listed on National Inventory (ENCS).
 Korea: Listed on National Inventory (KECI).
 Philippines: Listed on National Inventory (PICCS).
 Australia: Listed on AICS.

Other Classifications

WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC)

R36/38- Irritating to eyes and skin.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37- Wear suitable gloves

HMS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	C

National Fire Protection Association (U.S.A.)

Health



Flammability

Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)**DSCL (Europe) (Pictograms)****TDG (Canada) (Pictograms)****ADR (Europe) (Pictograms)****Protective Equipment**

Gloves (impervious).



Synthetic apron.



Wear appropriate respirator when ventilation is inadequate.

Safety glasses

Section 16. Other Information**MSDS Code** ZQ250**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 6/11/2009.

Verified by Sonia Owen.
Printed 6/11/2009.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.