



## **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
	Health Hazard2Fire Hazard2Reactivity1	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Dimethyl Succinate	Catalog Number(s).	D2427	
		CAS#	106-65-0	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RIECS	WM7675000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Dimethyl Succinate	
<b>Commercial Name</b> (s)	Not available.	CI#	Not available.	
Synonym	Butanedioic acid, dimethyl ester; Dimethyl dutanedioate; Methyl succinate		IN CASE OF EMERGENCY CHEMIREC (24hr) 800-424-9300	
Chemical Name	Succinic acid, dimethyl ester	<u>CHEVIREC</u>	<u>24nr) 800-424-9300</u>	
Chemical Family	Not available.	CALL (310) 51	CALL (310) 516-8000	
Chemical Formula	C6-H10-O4			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2. Composition and Information on Ingredients						
			Exposure Limits			
Name CAS #		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight	
1) Dimethyl Succinate		106-65-0				100
Toxicological Data     Dimethyl Succinate:       on Ingredients     ORAL (LD50):   Acute: >5000 mg/kg [Rat].						

Section 3. Hazards	Identification		
	DERMAL (LD50):	Acute: >5000 mg/kg [Rabbit].	
i ingretitents		Acute. >0000 mg/ng [Nat].	

Potential Acute Health Effects	Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

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Section 4. First Aid M	easures
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. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
Serious Skin Contact	Not available.
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 Ex	plosion Data
Flammability of the Product	Combustible.
Auto-Ignition Temperature	365℃ (689 <del>°</del> )
Flash Points	CLOSED CUP: 85°C (185°F).
Flammable Limits	LOWER: 1% UPPER: 8.5%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	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	COMBUSTIBLE. When heated to decomposition it emits acrid smoke and irritating fumes.
Special Remarks on Explosion Hazards	Not available.
Section 6. Accidental F	Release Measures
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. If the product is in its solid form:

Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: 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.

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Section 7. Handling ar	nd Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.		
Storage	Keep container in a cool, well-ventilated area. Kee all possible sources of ignition (spark or flame).	ep containe	er tightly closed and sealed until ready for use. Avoid
Section 8. Exposure C	ontrols/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 or Splash goggles. Synthetic apron or Lab coat. Gloves (impervious). Respiratory protection is not necessary for normal handling. Adequate general (room) ventilation or 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	Not available.		
Section 9. Physical and	d Chemical Properties		
Physical state and appearance	Liquid.	Odor	Pleasant. Ethereal. Winey.
Molecular Weight	146.14 g/mole	Taste	Fruity. Winey. Burning.
pH (1% soln/water)	Not available.	Color	Colorless.
Boiling Point	195.3℃ (383.5年) - 200 C.		
Melting Point	18°C (64.4°F) - 20 C.		
Critical Temperature	Not available.		
Specific Gravity	1.117 - 1.1202 (Water = 1)		
Vapor Pressure	0 kPa (@ 20°C)		
Vapor Density	5.04 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 0.	4	
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water, diethyl ether, n-octanol.		
Solubility	Easily soluble in diethyl ether. Soluble in acetone. Partially soluble in cold water. Soluble in 120 parts of water and 35 parts alcohol.		

## Dimethyl Succinate

Section 10. Stability a	nd Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Heat, ignition sources, incompatible materials.		
Incompatibility with various substances	Reactive with oxidizing agents.		
Corrosivity	Not available.		
Special Remarks on Reactivity	Not available.		
Special Remarks on Corrosivity	Not available.		
Polymerization	Will not occur.		
Section 11. Toxicologi	ical Information		
Routes of Entry	Absorbed through skin. Eye contact.		
Toxicity to Animals	Acute oral toxicity (LD50): >5000 mg/kg [Rat]. Acute dermal toxicity (LD50): >5000 mg/kg [Rabbit].		
Chronic Effects on Humans	Not available.		
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Not available.		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects Skin: May cause skin irritation. Can be absorbed through the skin. Eyes: Causes eye irritation. Inhalation: Inhalation of mist or vapor may cause respiratory tract irritation. It is considered a low hazard for inhalation due to its very low vapor pressure. Ingestiona: Low hazard. Low toxicity. May cause digestive tract irritation.		
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	Not available.		

Special Remarks on the Products of Biodegradation

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Section 13. Disposa	l Considerations		
Waste Disposal	Waste must be disposed of in accordance with federa regulations.	al, state and local environmental control	
Section 14. Transpo	ort Information		
DOT Classification	Not a DOT controlled material (United States).		
Identification	Not applicable.		
Special Provisions for Transport	Not applicable.		
DOT (Pictograms)			
Section 15. Other R	egulatory Information and Pictograms		
Federal and State Regulations	TSCA 8(b) inventory: Dimethyl Succinate TSCA 4(a) final test rules: Dimethyl Succinate TSCA 12(b) one time export: Dimethyl Succinate		
California Proposition 65 Warnings	California prop. 65. This product contains the following ingree cause cancer which would require a warning under the statute: N California prop. 65: This product contains the following ingree cause birth defects which would require a warning under the stat	to products were found. dients for which the State of California has found to	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Stand EINECS: This product is on the European Inventory of Existi 203-419-9). 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.		
Other Classifications	WHMIS (Canada)CLASS D-2B: Material causing other tooDSCL (EEC)R36- Irritating to eyes.	ic effects (TOXIC). S24/25- Avoid contact with skin and eyes S26- In case of contact with eyes, rinse	
		immediately with plenty of water and seek medical advice.	
HMIS (U.S.A.)	Health Hazard2National Fire Protection Association (U.S.A.)Fire Hazard2Reactivity1Personal ProtectionC	Health Flammbility Reactivity Specific hazard	
WHMIS (Canada) (Pictograms)	Ţ		
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DS CL (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. Ot	Section 16. Other Information			
MSDS Code	7095D			
References	Not available.			
Other Special Considerations	Major Uses solvent for fruit flavors; synthetic fla	avor		
Validated by Sonia	Owen on 5/30/2008.	Verified by Sonia Owen. Printed 6/26/2008.		
CALL (310) 516-800	00			
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.