



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
10	Health Hazard Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	D-Fructose 1,6-Diphosphate Dicalcium Salt	Catalog Number(s).	F3018
		CAS#	6055-82-9
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: D-Fructose 1,6-Diphosphate Dicalcium Salt
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Fructose 1,6-bis(calcium phosphate)	DI CACE OF	EMED CENCY
Chemical Name	Not available.		EMERGENCY (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	C6-H10-O12-P2-Ca2		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

			Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) {D-}Fructose 1,6-Diphosphate Dicalcium Salt	6055-82-9				100

Section 3. Hazards Identification		
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), 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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D-Fructose	1,6-Diphosphate Dicalcium Salt	
D-i i uctose	1,0-Dipilospilate Dicalciulii Galt	

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. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

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Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.	
Auto-Ignition Temperature	Not available.	
Flash Points	Not available.	
Flammable Limits	Not available.	
Products of Combustion	These products are carbon oxides (CO, CO2), phosphates. Some metallic oxides.	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence 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	As with most organic solids, fire is possible at elevated temperatures	
Special Remarks on Explosion Hazards	Not available.	

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water

on the contaminated surface and allow to evacuate through the sanitary system.

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Large Spill

D-Fructose 1	6-Din	hosnhate	Dicalcium	Salt
D-FIUCIOSE I	אוט-ט,	HUSPHALE	Dicalciuiii	Sail

Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Gound all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	

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Section 8. Exposure	Section 8. Exposure Controls/Personal Protection	
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Not available.	

Physical state and appearance	Solid.	Odor	Not available.	
		Taste	Not available.	
Molecular Weight	416.24 g/mole	Taste		
pH (1% soln/water)	Not available.	Color	Not available.	
Boiling Point	Not available.			
Melting Point	Not available.			
Critical Temperature	Not available.			
Specific Gravity	Not available.			
Vapor Pressure	Not applicable.			
Vapor Density	Not available.			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	Not available.			
Solubility	Not available.			

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.
Corrosivity	Not available.

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D-Fructose 1,6-Diphosphate Dicalcium Salt		Page Number: 4
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), 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. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Expected to have low toxicity and be a low hazard.	

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.	

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DOT (Pictograms)

Varnings



Section 15. Other Regulatory Information and Pictograms

Federal and State TSCA 8(b) inventory: D-Fructose 1,6-Diphosphate Dicalcium Salt Regulations

California
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 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS no.

227-979-9)

Canada: Listed on Canadian Non-Domestic Substance List (NDSL).

China: Not listed on National Inventory.

Japan: Not listed on National Inventory (ENCS). Korea: Llisted on National Inventory (KECI). Philippines: Not listed on National Inventory (PICCS).

Philippines: Not listed on National Inventory (Pi

Australia: Not listed on AICS.

Other Classifications WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according Not applicable.

to the EU regulations.

HMIS (U.S.A.)



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

Health



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WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.

D-Fructose 1,6-Diphosphate Dicalcium Salt



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.

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Safety glasses.



Section 16. Other Information			
MSDS Code	F0120		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 1/14/2008.		Verified by Sonia Owen. Printed 1/22/2008.	
CALL (210) 516 90	00		

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.