



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard 2 Fire Hazard 1	
	Reactivity 0	See Section 15.

Section 1. Chem	Section 1. Chemical Product and Company Identification Page Number: 1			Page Number: 1
Common Name/ Trade Name	Proflavine sulfate hydrate		Catalog Number(s).	P1429
			CAS#	1811-28-5
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	AR9065100
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Proflavine sulfate hydrate
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	3,6-Diaminoacridine hemisulfate			
Chemical Name	Not available.			<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C13H11N3.(1/2)H2SO4.xH2O			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Proflavine sulfate hydrate		1811-28-5				100
Toxicological Data on Ingredients	Proflavine sulfate hydrate LD50: Not available. LC50: Not available.					
Section 3. Hazards Identification Potential Acute Health Effects Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.						
Potential Chronic Health Effects	Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.					

Proflavine sulfate hydrate

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Not available.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

Section 5. Fire and E	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), nitrogen oxides (NO, NO2), sulfur oxides (SO2, SO3).		
Fire Hazards in Presence of Various Substances	Not available.		
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	Not available.		
Special Remarks on Explosion Hazards	Not available.		
Section 6. Accidental	Release Measures		

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.
Large Spill	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.

Section 7. Handling and Storage

Precautions	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 breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat

and away from strong oxidizing agents.

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	Splash goggles. 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.	

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Powdered solid.)	Odor	Not available.
Molecular Weight	258.29 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Orange.
Boiling Point	Not available.		
Melting Point	Decomposes.		
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 Not available. Incompatibility with various substances Not available.

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Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicolo	Section 11. Toxicological Information		
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.		
Toxicity to Animals	LD50: Not available. LC50: Not available.		
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes.		
Other Toxic Effects on Humans	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	Not available.		

Section 12. Ecologic	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 products of degradation are more toxic.		
Special Remarks on the Products of Biodegradation	Not available.		

Section 13. Disposal Considerations

Waste Disposal

DOT Classification	ication Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	

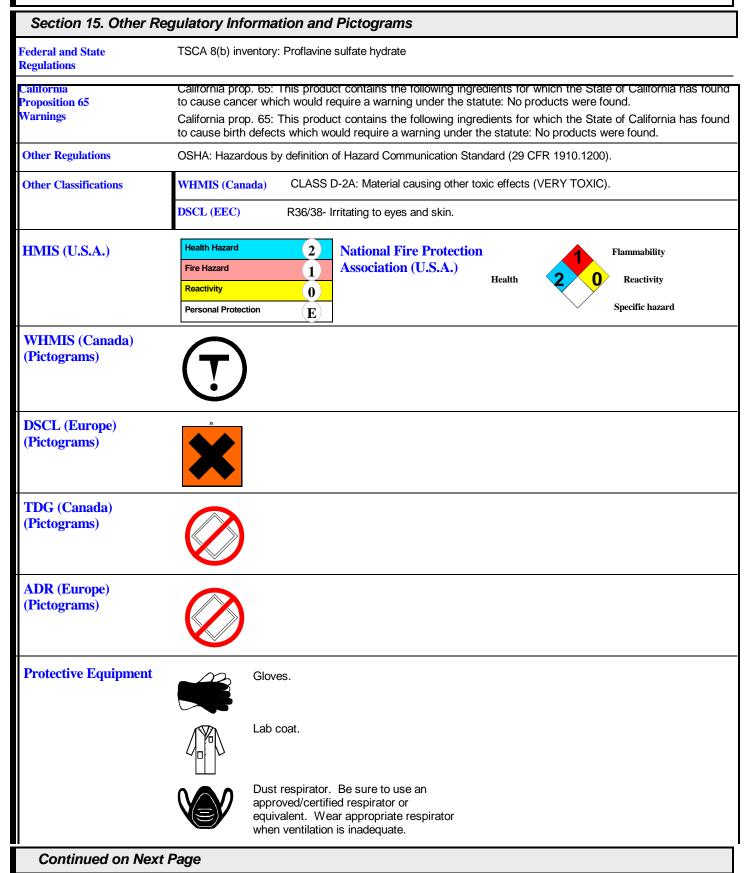
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Proflavine sulfate hydrate

DOT (Pictograms)







Proflavine sulfate hydrate



Splash goggles.

Section 16. Other Information

MSDS Code	P4670	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.
		Printed 9/13/2006.
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.