



Material Safety Data Sheet

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

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Epinephrine	Catalog Number		P130
		CAS#	5	1-43-4
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	D	O2625000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA		SCA 8(b) inventory: pinephrine
Commercial Name(s)	Not available.	CI#	N	ot available.
Synonym	4-[1-Hydroxy-2-(methylamino)ethyl]-1,2-benzenediol	DI CAG	- IN CASE OF EMERGENCY	
Chemical Name				<u>r) 800-424-9300</u>
Chemical Family	Not available.	CALL (310) 516-80	00
Chemical Formula	C9H13NO3			
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/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Epinephrine		51-43-4				100
Toxicological Data on Ingredients	Epinephrine: DERMAL (LD50):	Acute: 62 mg/kg	[Rat].			

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant, permeator), of

ingestion, of inhalation. Severe over-exposure can result in death. Inflammation of the eye is characterized by

redness, watering, and itching.

Potential Chronic Health CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in

one or many human organs.

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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 immediate medical attention.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.	
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. 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 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).	
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.
Large Spill	Use a shovel to put the material into a convenient waste disposal container.

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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 dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. 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. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.	

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.	Odor	Not available.
Molecular Weight	183.23 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Decomposes. (215°C or 419°F)		
Melting Point	211.5°C (412.7°F)		
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. Toxicological Information		
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	Acute dermal toxicity (LD50): 62 mg/kg [Rat].	
Chronic Effects on Humans	Not available.	
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	Embryotoxic and/or foetotoxic in animal.	
Special Remarks on other Toxic Effects on Humans	Not available.	

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

Section 14. Transport Information		
DOT Classification	CLASS 6.1: Poisonous material.	
Identification	: Toxic solid, organic, n.o.s. (Epinephrine) : UN2811 PG: III	
Special Provisions for Transport	Not available.	

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DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Pennsylvania RTK: Epinephrine Minnesota: Epinephrine New Jersey: Epinephrine TSCA 8(b) inventory: Epinephrine

CERCLA: Hazardous substances.: Epinephrine

Proposition 65

Varnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications

WHMIS (Canada) CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

R24- Toxic in contact with skin. DSCL (EEC)

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

HMIS (U.S.A.)



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

Health



Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.

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Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.



Section 16. Other Information			
MSDS Code	E3080		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 1/20/2003.		Verified by Sonia Owen. Printed 1/21/2003.	
GUAL (210) M/C 0000			

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.