

# Material Safety Data Sheet L(-)-Epinephrine, 99%

MSDS# 96863

	Section 1 - Chemical Product an	d Company Identification
MSDS Name:	L(-)-Epinephrine, 99%	
Catalog Numbers:	AC204400000, AC204400050, AC20	04400100
Synonyms:	l-3,4-Dihydroxy-Alpha-(Methylaminomethyl)Benzyl Alcohol; Adrenaline	
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Company Identification	: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:		800-ACROS-01
For information in Europe, call:		+32 14 57 52 11
Emergency Number, Europe:		+32 14 57 52 99
Emergency Number US:		201-796-7100
CHEMTREC Phone Number, US:		800-424-9300
CHEMTREC Phone N	umber, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#:	51-43-4
Chemical Name:	L(-)-Epinephrine
⁰∕₀:	99
EINECS#:	200-098-7

Т

Hazard Symbols:



**Risk Phrases:** 

23/24/25 33 36/37/38

Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

Warning! Light sensitive. Air sensitive. The toxicological properties of this material have not been fully investigated. May cause central nervous system depression. May cause central nervous system effects. May cause cardiac disturbances. Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye, skin, and respiratory tract irritation. Target Organs: Central nervous system, respiratory system, cardiovascular system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. At high concentrations may cause lacrimation (tearing) and irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation. May be absorbed through the skin in harmful amounts.

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause cardiac disturbances. The Ingestion: toxicological properties of this substance have not been fully investigated. May cause central nervous system depression.

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully

Inhalation: investigated. May be harmful if inhaled. May cause cardiac damage. Can produce delayed pulmonary edema. Inhalation at high concentrations may cause CNS depression and asphixiation.					
Chronic: Effects may be delayed.					
	-	Sectio	n 4 - First Aid Measures		
Eyes:	•	y flush eyes with plenty of the medical aid.	water for at least 15 minu	tes, occasionally lifting the upper and lower	
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.				
Ingestion:	•	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.			
Inhalation:		move from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If athing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.			
Notes to Physician:	Treat sympt	comatically and supportive	ly.		
		Section	5 - Fire Fighting Measure	S	
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of a fire. Runoff from fire control or dilution water may cause pollution.				
Extinguishing Media:					ol
Autoignition Temperature:					
	Flash Point: Not available				
	Explosion Limits: Lower: Not available				
Linnis. Opp	Explosion Limits: Upper:				
NFPA Rati	ng: health: 2; f	flammability: 0; instability:	,		
		Section 6 -	Accidental Release Meas	ures	
General Information:			ipment as indicated in Sec		
Spills/Leaks:	1	1 5,	01	tective Equipment section. Sweep up, then n. Place under an inert atmosphere.	
	Section 7 - Handling and Storage				
Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid Handling: ingestion and inhalation. Store protected from light. Handle under an inert atmosphere. Store protected from air. Wash clothing before reuse.					
Storage: Store in a tightly closed container. Poison room locked/refrigerator. Keep refrigerated. (Store below 4°C/39°F.) Do not expose to air. Store protected from light. Store under an inert atmosphere.					
Section 8 - Exposure Controls, Personal Protection					
Chemica	l Name	ACGIH	NIOSH	OSHA - Final PELs	
L(-)-Epin	ephrine	none listed	none listed	  none listed	
+		+	- +	- + +	

OSHA Vacated PELs: L(-)-Epinephrine: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes:	Wear safety glasses and che	mical goggles if splashing is possible.			
Skin:		e gloves and clothing to prevent skin exposure.			
Clothing:					
-	Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.				
	S	ection 9 - Physical and Chemical Properties			
		Physical State: Crystalline powder			
		Color: white to light beige			
		Odor: None reported.			
		pH: Not available			
Vapor Pressure: Not available					
		Vapor Density: Not available			
		Evaporation Rate: Not available			
		Viscosity: Not available			
		Boiling Point: Not available			
	Fr	reezing/Melting Point: 208-211 deg C			
	Decomp	position Temperature:			
		Solubility in water: slightly soluble			
	Spe	cific Gravity/Density:			
		Molecular Formula: C9H13NO3			
		Molecular Weight: 183.21			
		Section 10 - Stability and Reactivity			
Chemical St	ability:	Stable under normal temperatures and pressures.			
Conditions	to Avoid:	Incompatible materials, light, exposure to air, excess heat.			
Incompatibilities with Other Materials		Oxidizing agents, acids, acid chlorides.			
Hazardous Decomposition Products		Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen gas.			
Hazardous Polymerization		Has not been reported.			
		Section 11 - Toxicological Information			
RTECS#:	CAS# 51-43-4: DO	2625000			
	RTECS:				
LD50/LC50	): CAS# 51-43-4: Skir	n, rat: $LD50 = 62 \text{ mg/kg};$			
Carcinogeni	city: L(-)-Epinephrine - N	lot listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.			
Other:	See actual entry in R	TECS for complete information.			
		Section 12 - Ecological Information			
Other:	No information	n available.			
		Section 13 - Disposal Considerations			
Dispose of i	n a manner consistent with fe	ederal, state, and local regulations.			
Ĩ		Section 14 - Transport Information			
Hazard Class: UN Number: Packing Group Canada TDG		antity provisions apply (see 49CFR173.4)			
UN Number: Packing Group	:				

USA RQ: CAS# 51-43-4: 1000 lb final RQ; 454 kg final RQ

#### Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 23 Do not inhale gas/fumes/vapour/spray.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 51-43-4: 3

## Canada

CAS# 51-43-4 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 51-43-4 is not listed on Canada's Ingredient Disclosure List.

## US Federal

## TSCA

CAS# 51-43-4 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 9/02/1997 Revision #10 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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