

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Adrenaline Chloride 1/10,000

CAS number See section 3

Synonyms Epinephrine, Aqueous Solution

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC
 12501 Pauls Valley Road
 Austin, Texas 78737
 U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, dermal (Category 5)
Skin irritation (Category 3)
Eye irritation (Category 2B)

2.2 GHS Label elements, including precautionary statements

No symbol required.

Pictogram

Signal Word WARNING

Hazard statements None.

Precautionary
statements If medical advice is needed, have product container or label on hand.
Keep out of reach of children.
Read label before use.
NOT FOR CLINICAL USE. FATAL BY INJECTION. DO NOT TAKE
INTERNALLY. CALL A POISON CENTER OR DOCTOR IF YOU FEEL
UNWELL.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Health hazards not otherwise classified (HHNOC) - Not Known.

Physical hazards not otherwise classified (PHNOC) - Not Known.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
L-Epinephrine	Adrenaline	51-43-4	0.01%
Water	-	7732-18-5	>99%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice Show this safety data sheet to the doctor in attendance.

If inhaled MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT
IRRITATION. Remove to fresh air. If not breathing, give artificial respiration.
If breathing is difficult, give oxygen. Get medical attention.

**In case of skin
contact** MAY BE HARMFUL IN CONTACT WITH SKIN. CAUSES MILD SKIN
IRRITATION. Remove contaminated clothing. Flush thoroughly with mild
soap and water. If irritation occurs, get medical attention.

**In case of eye
contact** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush
thoroughly with water for at least 15 minutes, lifting upper and lower eyelids
occasionally. Get immediate medical attention.

If swallowed MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation to the respiratory tract, dizziness, tremors, restlessness, rapid heartbeat, increased blood pressure, acidosis, kidney failure, hallucinations. May cause irritation, nausea, vomiting, diarrhea, cardiovascular effect, increased pulse rate, arrhythmias, and heart.

4.3 Indication of any immediate medical attention and special treatment needed

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use means suitable to extinguishing surrounding fire.

Unsuitable extinguishing media None identified.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Special protective equipment and precautions for firefighters

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

5.4 Further information

Flash Point Not applicable.

Autoignition Temperature Not determined.

Explosion limits

Upper Not determined.

Lower Not determined.

Sensitivity to Mechanical Impact Not determined.

Sensitivity to Static Discharge Not determined.

NFPA

Health	Flammability	Instability	Physical hazards
1	0	0	0

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Ensure that air-handling systems are operational.

6.2 Environmental precautions

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

6.3 Methods and materials for containment and cleaning up

Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Wear protective eyewear, gloves, and clothing. Refer to Section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. If product has become yellow or amber, discontinue use.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Protect product from light.

Incompatibilities

Strong oxidizers, alkaline materials.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

No applicable occupational exposure limits.

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protective equipment

Eye/face protection

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

Skin protection

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Body Protection

Avoid skin contact with used gloves. Wear protective clothing

Respiratory protection

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Control of environmental exposure

Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before re-wearing, wash contaminated clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Clear
Appearance	Colorless liquid
Odor	Odorless
Odor Threshold	No data available
pH	No data available
Melting Point/Range	No data available
Boiling Point/Range	No data available
Evaporation Rate	No data available
Flammability (solid)	Not applicable
Flammability or explosive limit	No data available
Upper	No data available
Lower	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	1.0g/mL @ 20C
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No data available
Decomposition Temp	No data available

Viscosity	No data available
Molecular Formula	No data available
Molecular Weight	No data available
VOC Content(%)	No data available
Oxidizing properties	No data available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Nonreactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible materials, light, heat.

10.5 Incompatible materials

Strong oxidizers, alkaline materials.

10.6 Hazardous decomposition products

Hydrogen chloride, carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
L-Epinephrine	No additional information.	LD50 Rat 62 mg/kg	No additional information.

Skin corrosion/irritation

No additional information.

Serious eye damage/eye irritation

No additional information.

Respiratory or skin sensitization

No additional information.

Germ cell mutagenicity

No additional information.

Carcinogenicity

No additional information.

Specific target organ toxicity - single exposure

No additional information.

Specific target organ toxicity - repeated exposure

No additional information.

Reproductive toxicity

No additional information.

Chronic effects

No additional information.

11.2 Additional Information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

Not expected to be harmful to aquatic or plant life.

12.2 Persistence and degradability

Evaporation into atmosphere, dissolved into water, photodegradation.

12.3 Bio accumulative potential

Bioconcentration is not expected to occur.

12.4 Mobility in soil

No additional information.

12.5 Results of PBT and vPvB assessment

No additional information.

12.6 Endocrine disrupting properties

No additional information.

12.7 Other adverse effects

No additional information.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN Number	Not regulated.
Proper Shipping name	Not regulated.
Hazard Class	None.
Packaging Group	Not regulated.
Technical name	Adrenaline Chloride 1/10000 Solution

IMDG

UN Number	Not regulated.
Proper Shipping name	Not regulated.
Hazard Class	None.
Packaging Group	Not regulated.
Technical name	Adrenaline Chloride 1/10000 Solution

IATA

UN Number	Not regulated.
Proper Shipping name	Not regulated.
Hazard Class	None.
Packaging Group	Not regulated.
Technical name	Adrenaline Chloride 1/10000 Solution

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the ingredients are listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

51-43-4 L-Epinephrine 1,000 lbs.

SARA 304 Emergency release notification

None of the ingredients are listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

None of the ingredients are listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

None of the ingredients are listed.

SARA 311/312 Hazardous

Acute

SARA 313 (TRI reporting)

None of the ingredients are listed.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

None of the ingredients are listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the ingredients are listed.

Safe Drinking Water Act

None of the ingredients are listed.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

None of the ingredients are listed.

US state regulations

US. Massachusetts RTK - Substance List

None of the ingredients are listed.

US. New Jersey Worker and Community Right-to-Know Act

None of the ingredients are listed.

US. Pennsylvania Worker and Community Right-to-Know Law

None of the ingredients are listed.

California Proposition 65

None of the ingredients are listed.

SECTION 16: Other information

Date of Issue: 5/22/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.