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**Section 1. Product and Company Identification**

**Product Name** Epinephrine (-)  
**Product ID** E6432  
**Chemical Name (Synonyms)** Bronkaid Mist; Eppy; Glauposine; Simplene; Suprarenaline  
**Supplier** LKT Laboratories, Inc  
545 Phalen Blvd.  
St. Paul, MN 55130 USA  
Ph: 651-644-8424 Fax: 651-644-8357  
www.lktlabs.com - getinfo@lktlabs.com

**Emergency Phone #** 1-800-424-9300

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**Section 2. Hazards Identification**

**GHS Classification** Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Skin (Category 2), H310  
Acute toxicity, Inhalation (Category 3), H331

**GHS Label elements including precautionary statements**

**Pictogram**



**Signal word** Danger

**Hazard and precautionary statements**

**Hazard statements**

H301+ H331 - Toxic if swallowed or if inhaled.  
H310 - Fatal in contact with skin.  
H331 - Toxic if inhaled.

**Precautionary statements**

P261 - Avoid breathing dust, fume, gas, mist, vapors and spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves and protective clothing.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P311 - Call a POISON CENTER or doctor/physician.  
P321 - Specific treatment (see supplemental first aid instructions on this label.)  
P322 - Specific measures (see supplemental first aid instructions on this label).  
P330 - Rinse mouth.  
P361 - Remove/ take off immediately all contaminated clothing.  
P363 - Wash contaminated clothing before reuse.  
P403 - P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/. container to an approved waste disposal plant.

**HMIS Classification** Health hazard: 4  
Chronic health hazard: \*  
Flammability: 0  
Physical hazard: 0

**NFPA Rating** Health hazard: 3  
Fire hazard: 0  
Reactivity hazard: 0

**Potential Health Effects** Inhalation - Acute toxicity. Toxic if inhaled. May cause respiratory irritation.  
Skin - Acute toxicity. Fatal in contact with skin.  
Eyes - May cause eye irritation.

Ingestion - Acute toxicity. Toxic if swallowed.

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### Section 3. Composition/Information on Ingredients

#### Substances

**Formula**  $\text{C}_9\text{H}_{13}\text{NO}_3$

**Formula Wt.** 183.20

**CAS No.** 51-43-4

**EC No.** 200-098-7

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### Section 4. First Aid Measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>Eye Contact</b>	Flush eyes with water as a precaution.
<b>Skin Contact</b>	Wash with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### Section 5 . Firefighting Measures

<b>Flash Point</b>	Not available.
<b>Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical powder, or carbon dioxide.
<b>Firefighting Procedures</b>	Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.
<b>Unusual Fire Hazards</b>	Carbon oxides and nitrogen oxides (NOx).

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### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, dust, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and materials for containment and cleanup</b>	Avoid creating dust. Sweep up and shovel to dispose. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Storage Conditions</b>	Store in a tightly closed container in a dry and well-ventilated place. Recommended storage temperature: +4°C.
<b>Hazardous Decomposition Products</b>	Not available.
<b>Other Remarks</b>	Crystals brown when exposed to light and air.

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## Section 8. Exposure Controls/Personal Protection

### Personal protective equipment EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values.  
Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

#### PERSONAL PROTECTION

**Eye/face protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and splash contact - Material: nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min, Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

**Body protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** 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. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Solid.	<b>Color</b>	White or off-white powder.
<b>Boiling Point</b>	Not available.	<b>Volatility</b>	Not available.
<b>Melting Point</b>	211°C-212°C	<b>Density</b>	Not available.
<b>Solubility</b>	Slightly soluble in water and alcohol. Soluble in aqueous solutions of mineral acids, NaOH, and KOH. Insoluble in ether, chloroform, or acetone.	<b>pH</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Ignition temperature</b>	Not available.
<b>Lower explosion limit</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Upper explosion limit</b>	Not available.	<b>Vapor pressure</b>	Not available.
<b>Water solubility</b>	Slightly soluble in water.	<b>Odor</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not available.	<b>Odor Threshold</b>	Not available.
<b>Relative vapor density</b>	Not available.	<b>Evaporation rate</b>	Not available.

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## Section 10. Stability and Reactivity

### Stability

### Materials To Avoid

Keep Away from alkalis, copper, iron, silver/silver oxides, zinc, metals, tannins, sulfuric acid.

### Hazardous Decomposition Products

Not available.

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Not available.

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## Section 11. Toxicological Information

**Oral LD50** Not available.

**Skin corrosion/irritation** Not available.

**Inhalation LC50** Not available.

**Serious eye damage/irritation** Not available.

**Dermal LD50** Rat - 62mg/kg. Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Convulsions or effect on seizure threshold. Behavioral: Excitement.

**Respiratory or skin sensitization** Not available.

**Other information on acute toxicity** Not available.

**Germ cell mutagenicity** Not available.

**Reproductive Toxicity** Not available.

**Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Not available.

**Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** Not available.

**Additional Information** RTECS: DO2625000

**Teratogenicity** Not available.

**Signs and symptoms of exposure** Headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

**Potential Health Effects** Inhalation - Acute toxicity. Toxic if inhaled. May cause respiratory irritation. Skin - Acute toxicity. Fatal in contact with skin. Eyes - May cause eye irritation. Ingestion - Acute toxicity. Toxic if swallowed.

**Carcinogenicity** **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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## Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted.

**Persistence and degradability** Not available.

**Other adverse effects** Not available.

**Bioaccumulative potential** Not available.

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### Section 13. Disposal Considerations

**Waste Disposal** Dispose of material according to all federal, state, and local regulations.  
Offer material to a licensed professional disposal company to dispose of. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

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### Section 14. Transport Information

**DOT (US)** UN number: 2811 Class: 6.1 Packing group: II  
Proper shipping name: Toxic solids, organic, n.o.s. (Epinephrine)  
Reportable quantity (RQ): 1000 lbs. Poison inhalation hazard: No.

**IATA** UN number: 2811 Class: 6.1 Packing group: II  
Proper shipping name: toxic solid, organic, n.o.s. (Epinephrine)

**IMDG** UN number: 2811 Class: 6.1 Packing group: II EMS No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Epinephrine)

#### Further Information

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### Section 15. Regulatory Information

#### Reach No.

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Acute health hazard

**Massachusetts Right To Know Components** Epinephrine CAS #: 51-43-4 Revision Date: 1993-04-24

**Pennsylvania Right To Know Components** Epinephrine CAS #: 51-43-4 Revision Date: 1993-04-24

**New Jersey Right To Know Components** Epinephrine CAS #: 51-43-4 Revision Date: 1993-04-24

**California Prop 65 Components** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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### Section 16. Other Information

**Other information** The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

**Updated** 7/16/2019

For emergencies in the USA, call  
CHEMTREC 800-424-9300