

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Norepinephrine Bitartrate

Product ID N5766

Chemical Name (Synonyms) Norepinephrine d-Bitartrate; Levarterenol bitartrate

LKT Laboratories, Inc

545 Phalen Blvd. **Supplier** St. Paul, MN 55130 USA

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Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification

Acute toxicity, Oral (Category 2) H300 Acute toxicity, Skin (Category 2) H310 Acute toxicity, Inhalation (Category 1) H330

GHS Label elements including precautionary statements

Pictogram



Danger

Signal word

Hazard statements

Hazard and precautionary statements H300 + H310 - Fatal if swallowed or in contact with skin. H330 - Fatal if inhaled.

Precautionary statements

Precautionary statements
P260 - Do not breathe dust, fumes, gas, mist, vapors or spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/ protective clothing.
P284 - Wear respiratory protection.
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water.
P310 - Immediately call a POISON CENTER or physician.

HMIS Classification

Health hazard: 4 Chronic health hazard: * Flammability: 0

NFPA Rating

Health hazard: 4 Fire: 0

Reactivity hazard: 0

Potential Health Effects

Inhalation: Acute toxicity - Fatal if inhaled. May cause respiratory tract irritation.

Skin: Acute toxicity - Fatal in contact with skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: Acute toxicity - Fatal if swallowed.			
Section 3. Composition/Information on Ingredients			
Substances			007.00
Formula	C ₈ H ₁₁ NO ₃ • C ₄ H ₆ O ₆ • H ₂ O [108341-18-0]	Formula Wt. EC No.	337.28
CAS No.	[106541-16-0]	EC NO.	
Section 4. First Aid Measues			
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.		
Eye Contact	Remove contact lenses. Flush eyes with water for a precaution.		
Skin Contact	Wash with soap and plenty of water. Take victim immediately to hospital. Consult a physician.		
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Contact a physician or poison control immediately.		
Section 5 . Firefighting Measures			
Flash Point	Not available.		
Extingushing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Firefighting Procedures	Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.		
Unusual Fire Hazards	Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).		
Section 6. Accidental Release Measures			
Personal Precautions		dust formation. Avoid breathi	ing vapors, mist, or gas. Ensure adequate
Environmental Precautions	Prevent further leakage or spillage	f safe to do so. Do not let pro	oduct enter drains.
Methods and materials for containment and cleanup	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.		
Section 7. Handling and Storage			
Handling	Avoid contact with skin and eyes. A places where dust is formed. Norm	Avoid formation of dust and ae al measures for preventive fir	erosols. Provide appropriate exhaust ventilation at e protection.
Storage Conditions	Keep container tightly closed in a dry and will-ventilated place. Light sensitive.		
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions. Carbon oxides and nitrogen oxides (NOx). Other decomposition products - Not available.		
	N 1		

None.

Other Remarks

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values. PERSONAL PROTECTION

Eye 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 and 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.

Hand 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

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). Hygiene measures: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Section 9. Physical and Chemical Properties

Solid. White crystal powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility 102°C - 104°C Not available. **Melting Point Density** Soluble in water (400 mg/mL). Slightly soluble Not available. Solubility in ethanol (3mg/mL). pН Not available. Not available. Ignition **Flash Point** temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Soluble in water (400 mg/mL). Not available. Water solubility Odor Partition coefficient: Not available. Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation**

Section 10. Stability and Reactivity

Stability

Stable under recommended storage conditions.

Acids, bases, and oxidizing agents.

Materials To Avoid

Decomposition Products

Hazardous Hazardous decomposition products formed under fire conditions. Carbon oxides and nitrogen oxides (NOx). Other decomposition products - Not available.

rate

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

Section 11. Toxicological Information

Oral LD50 Not available. Skin Not available.

corrosion/irritation

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Germ cell mutagenicity Not available. Other information on Not available.

acute toxicity

Reproductive Toxicity May cause reproductive disorders. Exposure

during pregnancy can provoke uterine contractions which can result in fetal asphyxia. Aspiration Hazard Not available.

Specific organ toxicity Not available. Synergistic effects Not available.

single exposure (GHS)

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: Not available.

Signs and symptoms Cough, shortness of breath, headache, Teratogenicity Not available. of exposure nausea, vomiting, and sweating.

Potential Inhalation: Acute toxicity - Fatal if inhaled. May cause respiratory tract irritation.

Health Effects
Skin: Acute toxicity - Fatal in contact with skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: Acute toxicity - Fatal 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 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.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

PBT and vPvB Not available. assessment

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal

Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company. 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.

Section 14. Transport Information

DOT (US)
UN number: 2811 Class: 6.1 Packing Group: II
Proper shipping name: Toxic solids, organic, n.o.s. (L-(-)-Norepinephrine (+)-bitartrate salt monohydrate)
Marine pollutant: No Poison inhalation Hazard: No

IATA UN number: 2811 Class: 6.1 Packing group: II Proper shipping name: Toxic solid, organic, n.o.s. (L-(-)-Norepinephrine (+)-bitartrate salt monohydrate)

IMDG UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A and S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (L-(-)-Norepinephrine (+)-bitartrate salt monohydrate)

Marine pollutant: No

Further Information

Section 15. Regulatory Information

Reach No.

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

SARA 313 Components SARA 313: 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, chronic health hazard.

Massachusetts Right No components are subject to the Massachusetts Right to Know Act. To Know Components

Pennsylvania Right Norepinephrine Bitartrate CAS #: 108341-18-0 Revision Date: **To Know Components**

New Jersey Right Norepinephrine Bitartrate CAS #: 108341-18-0 Revision Date: **To Know Components**

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

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 6/28/2019

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