

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Dopamine Hydrochloride

Product ID D5662

Chemical Name

Cariosteril; Dopastat; Dynatra; Inovan; Inotropin

(Synonyms)

LKT Laboratories, Inc

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Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification

Acute toxicity, Oral (Category 4), H302 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

GHS Label elements including precautionary statements

Pictogram



Signal word

Warning

Hazard and precautionary statements

Hazard statements

H302 - Harmful if swallowed. H400 - Very toxic to aquatic life. H410 - Very harmful to aquatic life with lasting effects.

Precautionary statements

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves and protective clothing.
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse

mouth.

P305 + P3351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P330 - Rinse mouth.

P391 - Collect spillage. Hazardous to the aquatic environment.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification Health hazard: 2

Chronic health hazard: * Flammability: 0 Physical hazard: 0

NFPA Rating

Health hazard: 2 Fire hazard: 0 Reactivity hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes eye irritation.

Section 3. Composition/Information on Ingredients

Substances Ingredient: Title Compound Percent: 100

Formula $C_8H_{11}NO_2 \cdot HCI$ Formula Wt. 189.64 CAS No. 62-31-7 EC No. 200-527-8

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

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water. 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. Consult a physician.

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 for firefighting if necessary.

Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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. 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.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient

Hazardous Decomposition Products

Not available.

Other Remarks

Protect from light. Storage class (TRGS 510): Non combustible solids.

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

PERSONAL PROTECTION

PERSONAL PROTECTION
Eye/face protection: Safety glasses with side-shields conforming to EN 166. 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: 0.11mm, 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: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respiratory. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties			
Physical State	Solid.	Color	White to off-white powder.
Boiling Point	Not available.	Volatility	Not available.
Melting Point	241°C (dec)	Density	Not available.
Solubility	Soluble in water (100 mM), methanol and hot ethanol (20 mg/mL). DMSO to 38 mg/mL. Practically insoluble in ether, chloroform, benzene and toluene.	рН	3.0 - 5.5 at 40.0 g/l at 20°C
Flash Point	Not available.	Ignition temperature	Not available.
Lower explosion limit	Not available.	Autoignition temperature	Not available.
Upper explosion limit	Not available.	Vapor pressure	Not available.
Water solubility	Soluble in water (100 mM).	Odor	Not available.
Partition coefficient: n-octanol/water	log Pow: -2.58 at 25°C	Odor Threshold	Not available.

Section 10. Stability and Reactivity

Not available.

Evaporation rate

Stable under recommended storage conditions. Stability

Strong oxidizing agents.

Materials To Avoid

Relative vapor density Not available.

Hazardous Not available. Decomposition Products

Possibility of Not available. hazardous reactions

Light.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat - 1,870 mg/kg

Skin Skin - Rabbit Result: No skin irritation corrosion/irritation (OECD Test Guideline 404)

Inhalation LC50 Rat - 4 h - > 5.0 mg/l

(OECD Test Guideline 403)

Serious eye Eyes - Rabbit Result: No eye irritation. damage/irritation (OECD Test Guideline 405)

Dermal LD50 Not available.

Respiratory or Not available.

skin sensitization

Other information on Not available. acute toxicity

Germ cell mutagenicity Not available.

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Specific organ toxicity Not available. single exposure (GHS)

Synergistic effects Not available.

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: UX1092000

Teratogenicity Not available.

Signs and symptoms Liver, irregularities, based on human evidence of exposure

Potential Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Health Effects Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes eye irritation.
Ingestion - Acute toxicity. Harmful 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.

Section 12. Ecological Information

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - 2,200.0 - 4,600.0 mg/l - 96.0 h (DIN 38412)

Toxicity to daphnia & other aquatic invertebrates - static test EC50 - Daphnia magna (Water flea) - 24.5 mg/l - 48h

Mobility in soil Not available.

PBT and vPvB PBT/vPvB assessment not available as assessment chemical safety assessment not required/not (OECD Test Guideline 202)

Biotic/Aerobic Result: 60-70% - According to the tests of biodegradability this product is not readily biodegradable. (Directive 67/548/EEC Annex V, C.4.

Bioaccumulative potential Bioaccumulation is unlikely.

Persistence and degradability

conducted.

Other adverse effects An environmental hazard cannot be excluded

in the event of unprofessional handling or disposal. Very toxic to aquatic life with long

lasting effects.

Section 13. Disposal Considerations

Dispose of material according to all federal, state and local regulations. Waste Disposal Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US) UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride)

Marine pollutant: Yes Poison Inhalation Hazard: No

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dopamine hydrochloride) UN number: 3077 IATA

IMDG UN number: 3077 Class: 9

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dopamine hydrochloride) Marine pollutant: Yes

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 Dopamine Hydrochloride CAS #: 62-31-7 Revision Date: **To Know Components**

New Jersey Right Dopamine Hydrochloride CAS #: 62-31-7 **Revision Date: To Know Components**

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

Section 16. Other Information

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

user.

Updated 6/11/2020

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