



# DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/05/2011

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Supersedes: 12/05/2011

Version: 2.0

DLM-2833

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

### 1.1. Product identifier

|                |   |
|----------------|---|
| Product form   | : Substance   |
| Substance name | : DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE |
| EC No          | : 200-527-8 (Unlabeled)   |
| CAS No         | : 62-31-7 (Unlabeled)   |
| Product code   | : DLM-2833  |
| Formula        | : (HO)2C6H3CH2CD2NH2·HCl  |

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

#### 1.2.1. Relevant identified uses

|                                  |                             |
|----------------------------------|-----------------------------|
| Main use category                | : Professional use          |
| Industrial/Professional use spec | : For professional use only |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22

N; R50/53

Full text of R-phrases: see section 16

#### GHS-US classification

Acute Tox. 4 (Oral) H302

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Cardiovascular system, Nerves.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
P330 - Rinse mouth  
P391 - Collect spillage  
P501 - Dispose of contents/container to Comply with applicable regulations

#### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

GHS09

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

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

Precautionary statements (GHS-US) :

P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P301+P312 - If swallowed: Call a poison center/doctor/... if you feel unwell  
P330 - Rinse mouth  
P391 - Collect spillage  
P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Name  | Product identifier  | %   | Classification according to Directive 67/548/EEC                              |
|---|---|-----|---|
| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE | (CAS No) 62-31-7 (Unlabeled)<br>(EC No) 200-527-8 (Unlabeled) | 100 | Xn; R22<br>N; R50/53  |
| Name  | Product identifier  | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]               |
| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE | (CAS No) 62-31-7 (Unlabeled)<br>(EC No) 200-527-8 (Unlabeled) | 100 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of R- and H-statements: see section 16

| Name  | Product identifier           | %   | GHS-US classification   |
|---|------------------------------|-----|---|
| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE<br>(Main constituent) | (CAS No) 62-31-7 (Unlabeled) | 100 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

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### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Move out of dangerous area. Consult a physician and show this safety data sheet.                              |
| First-aid measures after inhalation   | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| First-aid measures after skin contact | : Wash off with soap and plenty of water. Consult a physician.  |
| First-aid measures after eye contact  | : Flush eye with water for 15 minutes. Get medical attention.   |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.           |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                      |  |
|--------------------------------------|--|
| Symptoms/injuries after inhalation   | : May be harmful if inhaled. Causes respiratory tract irritation.      |
| Symptoms/injuries after skin contact | : May be harmful if absorbed through the skin. Causes skin irritation. |
| Symptoms/injuries after eye contact  | : Causes eye irritation.   |
| Symptoms/injuries after ingestion    | : Harmful if swallowed.  |

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Protection during firefighting : Wear self-contained breathing apparatus for fire fighting if necessary. Wear suitable protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3. Methods and material for containment and cleaning up

For containment : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature away from light and moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state                             | : Solid                                  |
| Appearance                                 | : Powder.                                |
| Molecular mass                             | : 191.65 g/mol (Labeled)                 |
| Colour                                     | : White to brown.                        |
| Odour                                      | : No data available                      |
| Odour threshold                            | : No data available                      |
| pH   | : 3.0 - 5.5 at 40.0 g/l at 20 °C (68 °F) |
| Relative evaporation rate (butylacetate=1) | : No data available                      |
| Melting point                              | : 248 - 250 °C (478 - 482 °F)            |
| Freezing point                             | : No data available                      |
| Boiling point                              | : No data available                      |
| Flash point                                | : No data available                      |
| Auto-ignition temperature                  | : No data available                      |
| Decomposition temperature                  | : No data available                      |
| Flammability (solid, gas)                  | : No data available                      |
| Vapour pressure                            | : No data available                      |
| Relative vapour density at 20 °C           | : No data available                      |
| Relative density                           | : No data available                      |
| Solubility                                 | : No data available                      |
| Log Pow                                    | : -2.58 at 25 °C (77 °F)                 |
| Log Kow                                    | : No data available                      |
| Viscosity, kinematic                       | : No data available                      |
| Viscosity, dynamic                         | : No data available                      |
| Explosive properties                       | : No data available                      |
| Oxidising properties                       | : No data available                      |
| Explosive limits                           | : No data available                      |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Avoid light.

### 10.5. Incompatible materials

Strong oxidizing agents.

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### 10.6. Hazardous decomposition products

Under fire conditions: Carbon oxides, nitrogen oxides, Hydrogen chloride gas.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE (62-31-7 (Unlabeled)) |                |
|---|----------------|
| LD50 oral rat   | 1870 mg/kg     |
| LC50 inhalation rat (mg/l)  | > 5 mg/l - 4 h |

|   |  |
|---|--|
| Skin corrosion/irritation                           | : Not classified<br>Skin - rabbit - No skin irritation - OECD Test Guideline 405<br>pH: 3.0 - 5.5 at 40.0 g/l at 20 °C (68 °F) |
| Serious eye damage/irritation                       | : Not classified<br>Eyes - rabbit - No skin irritation - OECD Test Guideline 404<br>pH: 3.0 - 5.5 at 40.0 g/l at 20 °C (68 °F) |
| Respiratory or skin sensitisation                   | : Not available<br>No data available   |
| Germ cell mutagenicity                              | : Not classified   |
| Carcinogenicity                                     | : Not classified   |
| Reproductive toxicity                               | : Not classified   |
| STOT-single exposure                                | : Not classified   |
| STOT-repeated exposure                              | : Not classified   |
| Aspiration hazard                                   | : Not classified   |
| Potential adverse human health effects and symptoms | : Nausea. Vomiting. Headache. The chemical, physical, and toxicological properties have not been thoroughly investigated.      |
| Symptoms/injuries after inhalation                  | : May be harmful if inhaled. Causes respiratory tract irritation.  |
| Symptoms/injuries after skin contact                | : May be harmful if absorbed through the skin. Causes skin irritation.   |
| Symptoms/injuries after eye contact                 | : Causes eye irritation.   |
| Symptoms/injuries after ingestion                   | : Harmful if swallowed.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE (62-31-7 (Unlabeled)) |  |
|---|--|
| LC50 fish 1   | 2200 - 4600 mg/l - 96.0 h - Leuciscus idus (Golden orfe) |
| LC50 other aquatic organisms 1  | 24.5 mg/l - 48h - Daphnia magna (Water flea)             |
| ErC50 (algae)   | < 1 mg/l - 72 h  |

### 12.2. Persistence and degradability

| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE (62-31-7 (Unlabeled)) |  |
|---|--|
| Persistence and degradability   | Not readily biodegradable according to results of appropriate tests. |

### 12.3. Bioaccumulative potential

| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE (62-31-7 (Unlabeled)) |                        |
|---|------------------------|
| Log Pow   | -2.58 at 25 °C (77 °F) |
| Bioaccumulative potential   | Not available.         |

### 12.4. Mobility in soil

| DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE (62-31-7 (Unlabeled)) |                |
|---|----------------|
| Ecology - soil  | Not available. |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : Not available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact licensed disposal company to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No.(DOT) : 3077  
DOT NA no. UN3077

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Environmentally hazardous substances, solid, n.o.s.  
Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140  
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Symbols : G - Identifies PSN requiring a technical name  
Packing group (DOT) : III - Minor Danger  
DOT Special Provisions (49 CFR 172.102) : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.  
146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.  
335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.  
A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:  
a. Metal: 11A, 11B, 11N, 21A, 21B and 21N  
b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2  
c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2  
d. Fiberboard: 11G  
e. Wooden: 11C, 11D and 11F (with inner liners)  
f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).  
B54 - Open-top, sift-proof rail cars are also authorized.  
IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.  
N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.  
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)  
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 155  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213

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DOT Packaging Bulk (49 CFR 173.xxx) : 240  
Marine pollutant : Marine Pollutant



### 14.3. Additional information

Other information : No supplementary information available.

#### Overland transport

Packing group (ADR) : III  
Class (ADR) : 9 - Miscellaneous dangerous substances and articles  
Hazard identification number (Kemler No.) : 90  
Classification code (ADR) : M7  
Danger labels (ADR) : 9 - Miscellaneous dangerous substances and articles



Orange plates : 

Tunnel restriction code (ADR) : E  
Limited quantities (ADR) : 5kg  
EAC code : 2Z  
Excepted quantities (ADR) : E1


#### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
MFAG-No : 171

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit  
Civil Aeronautics Law : Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

### 14.4. Environmental hazards

Dangerous for the environment : 

Other information : No supplementary information available.

### 14.5. Special precautions for user

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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|                                     |  |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
|-------------------------------------|--|

#### 15.2. International regulations

##### CANADA

##### DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE (62-31-7 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

##### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

##### DOPAMINE:HCL (2-(3,4-DIHYDROXYPHENYL) ETHYLAMINE:HCL) (1,1-D2, 93%) 96-98% PURE(62-31-7 (Unlabeled))

|   |   |
|---|---|
| U.S. - California - Proposition 65 - Carcinogens List               | No  |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No  |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No  |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No  |
| State or local regulations  | U.S. - Massachusetts - Right To Know List<br>U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |

### SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

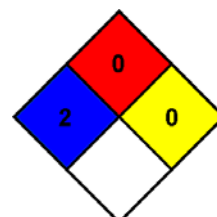
Full text of R-, H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4   |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1                                 |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                               |
| H302                | Harmful if swallowed  |
| H400                | Very toxic to aquatic life  |
| H410                | Very toxic to aquatic life with long lasting effects  |
| R22                 | Harmful if swallowed  |
| R50/53              | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| N                   | Dangerous for the environment   |
| Xn                  | Harmful   |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.





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### HMIS III Rating

|              |   |
|--------------|---|
| Health       | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 0 Minimal Hazard  |
| Physical     | : 0 Minimal Hazard  |

### CIL Multi-Solvent Mixture SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*