

# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

**Name:** D(+)-Galactosamine hydrochloride

**CAS#:** 1772-03-8

**Catalog Number:** BY-C018

**Company Identification:**

Nanjing Raise Pharmatech Co., Ltd.

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## 2. Hazards identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

**Carcinogenic effects:** Not available.

**Mutagenic effects:** Not available.

**Teratogenic effects:** Not available.

**Developmental toxicity:** Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

## 3. Composition, information on ingredients

**Synonyms:** 2-Amino-2-deoxy-D-galactose hydrochloride

D-Galactosamine hydrochloride

**Molecular Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub> · HCl

**Molecular Weight:** 215.63 g/mol

CAS	Description	Purity
1772-03-8	D(+)-Galactosamine hydrochloride	NLT98%

## 4. First aid measures

**Eyes:** Flush eyes with plenty of water occasionally lifting the upper and lower lids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

## 5. Fire fighting measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressuredemand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

## 6. Accidental release measures

**General Information:** Use proper personal protective equipment.

**Spills/Leaks:** Vacuum or sweep up material and place into suitable disposal container. Avoid generating dusty conditions.

**Environmental precautions:** Do not let product enter drains.

## 7. Handling and storage

**Handling:** Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin.

**Storage:** Storage temperature: 0-4 °C and Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls, personal protection

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protective Equipment

**Eyes:** Wear chemical safety goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Wear appropriate respirators where necessary

## 9. Physical and chemical properties

Appearance	White solid
Boiling Point	No data available.
Melting Point	179 °C ~ 185°C
Solubility	Soluble in water
Vapor Pressure	No data available.
Density	No data available.
Optical rotation	+96.0° (589nm c=1,H <sub>2</sub> O,24 hrs)

## 10. Stability and reactivity

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Incompatible materials, dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon monoxide, carbon dioxide, chloride fumes.

**Hazardous Polymerization:** Has not been reported.

## 11. Toxicological information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** LD50 Intraperitoneal - Mouse - 2,660 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Liver: Other changes.

LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** May affect genetic material (mutagenic). May cause cancer based on animal test data. No human data found.

**Special Remarks on other Toxic Effects on Humans:** Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause digestive tract irritation. May affect behavior (somnolence), liver. The toxicological properties of this substance have not been fully investigated.

## 12. Ecological information

**Toxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** No data available

## 13. Disposal considerations

**Waste treatment methods:**

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product

## 14. Transport information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

## 15. Regulatory information

**Federal and State Regulations:** TSCA 8(b) inventory: D(+)-Galactosamine Hydrochloride

**Other Regulations:** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

**HMIS (U.S.A.):**

**Health Hazard: 1**

**Fire Hazard: 1**

**Reactivity: 0**

**Personal Protection: E**

**National Fire Protection Association (U.S.A.):**

**Health: 1**

**Flammability: 1**

**Reactivity: 0**

**Specific hazard:**

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

## 16. Additional information

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Last Updated: 2018-11-15