

Safety Data Sheet: Dexrazoxane Intermediate

1. Identification

Product	Dexrazoxane Intermediate; CAS 19777-66-3; EC 606-377-3
Use	Professional chiral-intermediate synthesis and process development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Dexrazoxane Intermediate. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Skin irritation Category 2; serious eye irritation Category 2; specific target organ toxicity, single exposure Category 3 (respiratory irritation).
Signal word / symbols	Warning; GHS07
Hazard statements	H315: causes skin irritation. H319: causes serious eye irritation. H335: may cause respiratory irritation.
Prevention	Use contained powder transfer and effective local extraction. Wear compatible gloves, goggles and protective clothing. Avoid dust inhalation and skin or eye contact; provide eyewash access and wash thoroughly after handling.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	(S)-(-)-1,2-Diaminopropane dihydrochloride, CAS 19777-66-3, EC / List No. 606-377-3. Matched solid reference ≤100%, nominal reference purity 98%; supplied GC purity ≥99.0%. No impurity fraction is assigned.
Supply grade	GC purity ≥99.0%; anhydrous assay ≥98.0%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Dust and contact can irritate skin, eyes and the respiratory tract. Obtain medical advice after eye exposure or persistent symptoms. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, carbon dioxide, dry chemical or suitable foam for the surrounding incident. Firefighters require protective clothing and breathing apparatus.
Hazards	Fire or thermal decomposition can release carbon oxides, nitrogen oxides and hydrogen chloride.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personal protection	Use contained powder transfer and effective local extraction. Wear compatible gloves, goggles and protective clothing. Avoid dust inhalation and skin or eye contact; provide eyewash access and wash thoroughly after handling.
Containment	Recover solid material mechanically without generating dust. Collect in labelled closed containers and segregate contaminated residue.
Environment	Prevent drainage and uncontrolled release; use an approved disposal route.

7. Handling and Storage

Handling	Use contained powder transfer and effective local extraction. Wear compatible gloves, goggles and protective clothing. Avoid dust inhalation and skin or eye contact; provide eyewash access and wash thoroughly after handling.
Storage	Keep tightly closed in a cool, dry, well-ventilated place. Protect from moisture, excessive heat and contamination; retain original sealed packaging until use.
Incompatibilities	The selected reference identifies no specific incompatible material. Avoid excessive heat, contamination and unvalidated chemical mixing.

8. Exposure Controls / Personal Protection

Exposure limits	The selected reference supplies no numerical ingredient-specific occupational limit. Control dust at source and apply local workplace requirements.
Engineering controls	Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Off-white to yellowish crystalline powder
Formula / molecular weight	C ₃ H ₁₀ N ₂ ·2HCl / 147.05 g/mol
Physical state	Crystalline solid
Formula	C ₃ H ₁₀ N ₂ ·2HCl
Molecular weight	147.05 g/mol
Melting range, reference	227–229°C
Water, supply	≤5.0%
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	The selected reference identifies no specific incompatible material. Avoid excessive heat, contamination and unvalidated chemical mixing.
Decomposition	Fire or thermal decomposition can release carbon oxides, nitrogen oxides and hydrogen chloride.

11. Toxicological Information

Exposure effects	Dust and contact can irritate skin, eyes and the respiratory tract. Obtain medical advice after eye exposure or persistent symptoms.
Reference classification	Skin irritation Category 2; serious eye irritation Category 2; specific target organ toxicity, single exposure Category 3 (respiratory irritation).
Data limits	No numerical oral, dermal or inhalation toxicity endpoints are supplied by the selected reference. Skin and eye irritation and respiratory target-organ irritation classifications apply; no supplied-lot chronic study is asserted.

12. Ecological Information

Environmental effects	Quantitative aquatic, persistence, bioaccumulation and mobility endpoints are not established in the selected reference. Prevent environmental release and drainage.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	ADR / RID, IMDG and IATA: non-dangerous goods for the matched crystalline salt reference; no assigned UN number or packing group.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Dexrazoxane Intermediate; CAS 19777-66-3; EC 606-377-3
HS reference	292129; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H315: causes skin irritation. H319: causes serious eye irritation. H335: may cause respiratory irritation.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

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