

Cytarabine SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Cytarabine
- **Catalog Number:** S1648
- **CAS Number:** 147-94-4
- **IUPAC Name:**
4-amino-1-((2R,3S,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)-tetrahydrofuran-2-yl)pyrimidin-2(1H)-one

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

The substance is classified as a Germ cell mutagenicity (Category 1B) and Reproductive toxicity (Category 2) according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Pictogram:



Signal Word: Danger

Hazard Statements:

- H340: May cause genetic defects.
- H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.

- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P308 + P313: IF exposed or concerned: Get medical advice/ attention.
- P405: Store locked up.
- P501: Dispose of contents/ container to an approved waste disposal plant.

Other hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a substance.

- **Chemical name:** (Arabinofuranosyl)cytosine
- **CAS-No.:** 147-94-4
- **Concentration:** ≥ 80 - $\leq 100\%$
- **Trade secret:** The actual concentration or concentration range is withheld as a trade secret (TSC).

4. FIRST AID MEASURES

- **General advice:** Show this safety data sheet to the doctor in attendance.
- **If inhaled:** Move to fresh air. Call a physician.
- **In case of skin contact:** Take off contaminated clothing immediately. Rinse skin with water/shower. Consult a physician.
- **In case of eye contact:** Rinse with plenty of water. Remove contact lenses. Call an ophthalmologist.
- **If swallowed:** Immediately make the victim drink water (maximum of two glasses). Consult a physician.
- **Most important symptoms and effects:** The most important known symptoms and effects are described in the labelling (Section 2) and/or Section 11.
- **Protection of first-aiders:** Refer to Section 8 for personal protection.
- **Notes to physician:** N/A.

5. FIREFIGHTING MEASURES

- **Suitable extinguishing media:** Water, Foam, Carbon dioxide (CO₂), Dry powder.
- **Unsuitable extinguishing media:** No limitations of extinguishing agents are given for this substance.
- **Specific hazards:** Combustible. Hazardous combustion gases or vapors (Carbon oxides, Nitrogen oxides) may develop in the event of fire.
- **Further information:** Suppress gases/vapors/mists with water spray jet. Prevent fire extinguishing water from contaminating surface water or ground water systems.
- **Special protective equipment:** Stay in the danger area only with self-contained breathing apparatus. Prevent skin contact by maintaining a safe distance or wearing suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area and consult an expert. For personal protection, see Section 8.
- **Environmental precautions:** Do not let the product enter drains.

- **Methods for containment and cleaning up:** Cover drains. Collect, bind, and pump off spills. Observe material restrictions (Sections 7 and 10). Take up carefully and dispose of properly. Clean the affected area. Avoid generation of dusts.

7. HANDLING AND STORAGE

- **Advice on safe handling:** Work under a hood. Do not inhale the substance/mixture.
- **Storage conditions:** Keep container tightly closed and dry in a well-ventilated place. Keep locked up or in an area accessible only to authorized persons.
- **Storage class:** 6.1C (Combustible, acute toxic Cat.3 / toxic compounds or compounds causing chronic effects).
- **Recommended storage temperature:** 36 - 46 °F / 2 - 8 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters:** Contains no substances with occupational exposure limit values.
- **Engineering measures:** N/A.
- **Respiratory protection:** Required when dusts are generated. Recommended filter type: P3 (based on DIN EN 143, DIN 14387).
- **Hand protection:** Nitrile rubber gloves (Full and splash contact). Breakthrough time: 480 min; Glove thickness: 0.11 mm (e.g., KCL 741 Dermatrill L).
- **Eye protection:** Safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and body protection:** Protective clothing.
- **Hygiene measures:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** white
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting point:** 428 °F / 220 °C (Decomposes on heating)
- **Boiling point/boiling range:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability (solid, gas):** N/A
- **Upper/Lower flammability or explosive limits:** N/A
- **Vapor pressure:** N/A
- **Relative vapor density:** N/A
- **Relative density:** N/A
- **Density:** ca. 1.89 g/cm³ (68 °F / 20 °C) (calculated)

- **Water solubility:** N/A
- **Partition coefficient: n-octanol/water:** N/A
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** Not classified as explosive
- **Oxidizing properties:** none
- **Molecular weight:** 243.22 g/mol

10. STABILITY AND REACTIVITY

- **Reactivity:** Flammable organic substances in fine distribution may have dust explosion potential when whirled up.
- **Chemical stability:** Chemically stable under standard ambient conditions (room temperature).
- **Possibility of hazardous reactions:** Violent reactions possible with strong oxidizing agents.
- **Conditions to avoid:** No information available.
- **Incompatible materials:** Strong oxidizing agents.
- **Hazardous decomposition products:** In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** LD50 Oral - Rat - > 5,000 mg/kg. Inhalation and Dermal data not available.
- **Skin corrosion/irritation:** N/A.
- **Serious eye damage/eye irritation:** N/A.
- **Respiratory or skin sensitization:** N/A.
- **Germ cell mutagenicity:** May cause genetic defects. Positive results in rat and mouse embryo morphological transformation tests, and cytogenetic analysis in humans (intravenous) and mice (intraperitoneal).
- **Carcinogenicity:** No component present at levels $\geq 0.1\%$ is identified as a carcinogen by IARC, NTP, or OSHA.
- **Reproductive toxicity:** Suspected of damaging the unborn child and suspected of damaging fertility.
- **STOT - single exposure:** N/A.
- **STOT - repeated exposure:** N/A.
- **Aspiration hazard:** N/A.
- **Additional Information:** RTECS: HA5425000. Liver irregularities based on human evidence.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** N/A.
- **Persistence and degradability:** N/A.
- **Bioaccumulative potential:** N/A.
- **Mobility in soil:** N/A.

- **Other adverse effects:** This product does not contain Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602.

13. DISPOSAL CONSIDERATIONS

- **Waste from residues:** Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. Do not mix with other waste. Handle uncleaned containers as the product itself.

14. TRANSPORT INFORMATION

- **DOT (49 CFR):** Not regulated as a dangerous good.
- **IATA:** Not regulated as a dangerous good.
- **IMDG:** Not regulated as a dangerous good.
- **Transport in bulk:** Not applicable for product as supplied.
- **Poison Inhalation Hazard:** No.

15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 : Acute Health Hazard

Hazards Chronic Health Hazard

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

(Arabinofuranosyl)cytosine 147-94-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including (Arabinofuranosyl)cytosine, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/08/04

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.