

BERRY & ASSOCIATES/ICON ISOTOPES
Safety Data Sheet
5'-Azido-5'-deoxythymidine

SECTION 1: Identification

1.1 Product identifier

Product name	5'-Azido-5'-deoxythymidine
Product number	PY 7070
Brand	Berry&Associates
Substance name	5'-AZIDO-5'-DEOXYTHYMIDINE
CAS no.	19316-85-9

1.2 Other means of identification

AZT

1.3 Recommended use of the chemical and restrictions on use

Laboratory chemicals; Manufacture of substance

1.4 Supplier's details

Name	Berry & Associates/ICON Isotopes
Address	2434 Bishop Circle East Dexter, MI 48130 USA
Telephone	734-426-3787
Fax	734-426-9077
email	alchem@berryassoc.com

1.5 Emergency phone number(s)

USA /Canada 800-424-9300
All else 703-527-3887

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not a hazardous substance

2.2 GHS label elements, including precautionary statements

None

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	5'-AZIDO-5'-DEOXYTHYMIDINE
CAS no.	19316-85-9
Formula	C ₁₀ H ₁₃ N ₅ O ₄
Molecular weight	267.24

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Hazardous components

Not a mixture

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice

If inhaled

Move to fresh air. Get medical attention if symptoms occur.

IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Respirator Recommendation.

In case of skin contact

Wash skin with soap and water.

IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. If symptoms such as redness or irritation develop, IMMEDIATELY call a physician and be prepared to transport the victim to a hospital for treatment.

In case of eye contact

immediately flush eyes with water for at least 15 minutes. Get medical attention if symptoms occur.

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

DO NOT INDUCE VOMITING. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. Be prepared to transport the victim to a hospital if advised by a physician. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. DO NOT INDUCE VOMITING. IMMEDIATELY transport the victim to a hospital.

4.2 Most important symptoms/effects, acute and delayed

No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No further relevant information available.

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SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Specific hazards arising from the chemical

Carbon monoxide and carbon dioxide, nitrogen oxides (NO_x)

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus if necessary and full protective gear to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus and appropriate personal protection (safety goggles, heavy rubber gloves and rubber boots).

6.2 Environmental precautions

Take measures to avoid release into the environment, do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spill and collect as appropriate. Sweep up and shovel. Transfer to chemical waste container in accordance with local regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly sealed.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a dry, well-ventilated area at 5 °C. Protect from heat and store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Use industrial hygiene practices to control hazardous materials. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands after use.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses

Skin protection

Chemical-resistant gloves

Body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

NIOSH approved respirator, as conditions warrant.

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Environmental exposure controls

Do not let material enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid;
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	Not available
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	Not available
Solubility(ies)	Soluble in DMSO; Water solubility ca. 50 g/L
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions: -20 °C

10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Heat, strong oxidizing reagents

10.6 Hazardous decomposition products

No data available.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

May cause eye irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure; STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

RTECS: XP2072000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

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Results of PBT and vPvB assessment

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Dispose in accordance with local, state and federal regulations.

Disposal of contaminated packaging

Dispose in accordance with local, state and federal regulations.

SECTION 14: Transport information

DOT (US); IMDG; IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 components

Chemical name: 3'-AZIDO-3'-DEOXYTHYMIDINE CAS number: 30516-87-1 12/18/2009 - Cancer

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 311/312 Hazards

Not listed

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Not listed

New Jersey Right To Know Components

Not listed

SARA 313 Components

Not listed

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Further information/disclaimer

The Information in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Safety Data Sheet is designed only as guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Users should make independent decisions regarding completeness of information based on all sources available. Berry & Associates, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.