

Unusual Fire or Explosion Hazards: No unusual fire or explosion hazard is known to exist.

Special Fire-fighting Procedures: Evacuate personnel to a safe area. Fire fighters should use protective clothing and a self-contained breathing apparatus.

Hazardous Combustion Products: Thermal decomposition may produce carbon monoxide and other toxic substances. Since specific products of combustion are unknown, as a precaution, assume they are hazardous.

SECTION V. REACTIVITY DATA

Compound Stability: Material is stable under most conditions. Hazardous polymerization is not known to occur.

Chemical Incompatibilities: Avoid strong oxidizing agents.

Conditions To Avoid: No conditions contributing to instability are known to exist.

Hazardous Decomposition Products: Since products of decomposition are not known, as a precaution, assume they are hazardous.

SECTION VI. HEALTH HAZARD INFORMATION

Summary of Risks: Clinical experience with related nucleoside analogs suggests that delayed onset toxicities may be produced by 2',3'-Dideoxyinosine. These could include hematological effects, gastrointestinal disturbances, reproductive organ toxicities, skin rashes of undefined nature and neurologic disturbances.

Primary Entry Routes: Inhalation, ingestion, and skin and/or eye contact.

Target Organs: Target organs of toxicity may include gastrointestinal tract, reproductive organs, central nervous system, skin and blood system.

Signs & Symptoms of Overexposure: See Summary of Risks.

Acute Effects: Data from Phase I studies have shown peripheral neuropathy-like symptoms and elevated uric acid levels to be the dose limiting effect of 2',3'-Dideoxyinosine, with dose modification required at total oral doses of 26 mg/kg or more.

Chronic Effects: UNKNOWN

Medical Conditions Which May Be Aggravated By Contact: Overexposure to any dust may aggravate a preexisting lung condition. Patients with impaired renal function were excluded from Phase I trials. Safety for use in pregnancy has not been established.

M A T E R I A L S A F E T Y D A T A S H E E T

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NSC 612049

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For Eye Contact: Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult an ophthalmologist.

For Skin Contact: Remove contaminated clothing. Wash skin with plenty of soap and water. Consult a physician. Chemically decontaminate clothing and then launder before reuse or incinerate.

For Inhalation: Remove victim promptly to clean air. Administer artificial respiration if victim is not breathing. If breathing is difficult give oxygen. Consult a physician.

For Ingestion: Remove residual drug. Consult a physician. Provide supportive treatment. No specific antidote exists.

SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill/Leak Cleanup Procedures: Evacuate area. Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard after use. Avoid raising aerosols by promptly covering the spilled compound with wet paper towels. Pick up compound with additional towels, place in a bag, and hold for waste disposal. Ventilate area and wash spill site after compound pick-up is complete. Dispose of contaminated clean-up materials properly.

Waste Management/Disposal: Disposal options include incineration, landfill, or sewer as dictated by specific circumstances and relevant regulations. It is recommended to dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, state, and local laws concerning the disposal of hazardous material or waste.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Personal Protective Equipment:

Goggles: Wear chemical safety goggles when handling 2',3'-Dideoxyinosine.
Gloves: Wear rubber or latex gloves when handling 2',3'-Dideoxyinosine.
Respirator: Wear NIOSH-MSHA approved respirator.
Other: Wear protective laboratory coat or apron.

Workplace Considerations:

Ventilation: Laboratory operations should be conducted in a chemical fume hood, glove box, or ventilated cabinet equipped with mechanical exhaust to the outside.

Safety Stations: Safety shower and eye bath should be accessible.

The personal protective equipment listed above should be worn at all times when handling 2',3'-Dideoxyinosine. Avoid contact and inhalation. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

SECTION IX. SPECIAL PRECAUTIONS

Storage Segregation: Store in tightly closed containers at room temperature.

Other Precautions: The user should be made aware that 2',3'-Dideoxyinosine is an investigational substance. Handling as solids or solutions should be carried out with extreme care to avoid personal exposure. Hazards associated with exposure to 2',3'-Dideoxyinosine may as yet be unknown. This material should be handled only by those trained in the handling of potentially hazardous material.

For Non-Emergency Information:

Decontamination Procedures
301-496-8780

Chief, Pharmaceutical Resources Branch

Material Safety Data Sheets
301-496-8795

Project Officer, Drug Synthesis And
Chemistry Branch

Toxicity Data
301-496-8777

Chief, Toxicology Branch

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