



# InVivoScribe Technologies

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## Material Safety Data Sheet

Date Updated: July 21, 2009  
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### Section 1 – Product and Company Information

**Product Name:** HI-DI Formamide with ROX Size Standards (ABI 310)  
**Product Number:** 6-098-0051  
**Intended Use:** Reagents for research use only  
**Brand:** InVivoScribe Technologies  
**Company:** InVivoScribe Technologies, Inc.  
**Street Address:** 6330 Nancy Ridge Drive  
**City, State, Zip, Country:** San Diego, California 92121, USA  
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### Section 2 – Composition/Information on Ingredient

#### Components

**Substance Name:** DNA in buffer      **CAS #:** None      **SARA 313:** None  
**Formula:**  
**Synonyms:** deoxyribonucleic acid

**Substance Name:** HI-DI Formamide      **CAS #:** 75-12-7      **SARA 313:** None  
**Formula:** CH<sub>3</sub>NO  
**Synonyms:** Formamide

### Section 3 – Hazards Identification

**Substance Name:** DNA in buffer

**HMIS Rating:** Health: 0      Flammability: 0      Reactivity: 0

**NFPA Ratings:** Health: 0      Flammability: 0      Reactivity: 0

**Substance Name:** HI-DI Formamide

**HMIS Rating:** Health: 3      Flammability: 1      Reactivity: 2

**NFPA Ratings:** Health: 2      Flammability: 1      Reactivity: 0

#### Risk advice to man and the environment:

The usual precautions taken when handling chemicals should be observed.

Note: Hazardous to water and ground.

### Section 4 – First Aid Measures

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Dermal Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Call a physician.

## Section 5 – Fire Fighting Measures

**Autoignition Temp:** >500°C      **Flammability:** Slight

**Extinguishing Media Suitable:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

**Firefighting Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazards:** Emits toxic fumes under fire conditions.

## Section 6 – Accidental Release Measures

**Procedure(s) of Personal Precaution(s):** Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**Methods of Cleaning Up:** Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**Environmental Precautions:** Keep away from drains, surface- and ground-water and soil.

## Section 7 – Handling and Storage

**Handling: User Exposure:** Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage: Suitable:** Keep tightly closed and store at -15°C - -30°C.

## Section 8 – Exposure Controls / PPE

**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment: Respiratory:** NIOSH/MSHA-approved respirator.

**Hand:** Compatible chemical resistant gloves.

**Eye:** Chemical safety goggles.

**General Hygiene Measures:** Wash thoroughly after handling.

## Section 9 – Physical/Chemical Properties

**Molecular Weight:** N/A

| <u>Property:</u>             | <u>Value:</u>              | <u>Property:</u>              | <u>Value:</u>        |
|------------------------------|----------------------------|-------------------------------|----------------------|
| <b>pH:</b>                   | Approximately neutral (aq) | <b>Water Content:</b>         | N/A                  |
| <b>BP/BP Range:</b>          | N/A                        | <b>Solvent Content:</b>       | N/A                  |
| <b>MP/MP Range:</b>          | 2.5 °C                     | <b>Evaporation Rate:</b>      | N/A                  |
| <b>Freezing Point:</b>       | N/A                        | <b>Viscosity:</b>             | 0.29 cps             |
| <b>Vapor Pressure:</b>       | 0.24 mmHg @ 50°C           | <b>Partition Coefficient:</b> | N/A                  |
| <b>Vapor Density:</b>        | 1.6 (air=1)                | <b>Decomposition Temp:</b>    | N/A                  |
| <b>Saturated Vapor Conc:</b> | N/A                        | <b>Flash Point °C:</b>        | 154°C                |
| <b>SG/Density:</b>           | 1.1                        | <b>Flash Point °F:</b>        | 309°F                |
| <b>Bulk Density:</b>         | N/A                        | <b>Explosion Limits:</b>      | Upper 19% Lower 2.7% |
| <b>Odor Threshold:</b>       | N/A                        | <b>Autoignition Temp:</b>     | >500°C               |
| <b>Volatile %:</b>           | N/A                        | <b>Solubility:</b>            | N/A                  |
| <b>VOC Content:</b>          | 100                        |                               |                      |

## Section 10 – Stability and Reactivity

**Stability:** Decomposes in contact with water

**Materials to Avoid:** Strong oxidizing agents. Acids. Bases. Common metals

**Hazardous Decomposition Products:** Hydrogen cyanide. Ammonia.

**Hazardous Polymerization:** Will not occur.

## Section 11 – Toxicological Information

**Route of Exposure:**

**Skin:** May cause irritation.

**Eye:** May cause irritation.

**Inhalation:** May be irritating to mucous membranes and upper respiratory tract.

**Multiple Routes:** May be harmful by inhalation, ingestion, or skin absorption.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**RTECS Number:** LQ2100000

Section 12 – Ecological Information

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N/A

Section 13 – Disposal Considerations

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**Appropriate Method of Disposal of Substance or Preparation:** 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 environmental regulations.

Section 14 – Transport Information

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Is not subject to current regulations for transportation of dangerous goods (ADR/RID, IMDG, IATA/ICAO).

Section 15 – Regulatory Information

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Section 16 – Other Information

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**Further Information:** The information herein is believed to be correct as the date hereof. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed.