

DUALSYSTEMS BIOTECH
Material Safety Data Sheet

Last update: 17.7.2008
Version 2.0

According to 91/155/EEC

1 - Product and Company Information

Product Name Dye stock solution, HTX beta-galactosidase assay kit
Product Number P01002

Company Dualsystems Biotech
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8952 Schlieren
Switzerland
Technical Phone
Fax # +41-44-738-50-05
Emergency Phone # +41-44-251-5151 (CH)
(Toxikologisches Informationszentrum)

2 - Composition/Information on Ingredients

N,N-DIMETHYL-13C2-FORMAMIDE
Formula C3H7NO
Molecular Weight 75.08 AMU

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
May cause harm to the unborn child. Harmful by inhalation and in contact with skin. Irritating to eyes.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER INGESTION

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

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

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

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Impervious protective clothing. Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Appearance N/A

Property Value At Temperature or Pressure

pH N/A

BP/BP Range N/A

MP/MP Range N/A

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

SG/Density N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A
Evaporation Rate N/A
Bulk Density N/A
Decomposition Temp. N/A
Solvent Content N/A
Water Content N/A
Surface Tension N/A
Conductivity N/A
Miscellaneous Data N/A
Solubility N/A

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Acid chlorides, Oxidizing agents, Chloroformates, Reducing agents, Halogens.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Exposure can cause: Stomach pains, vomiting, diarrhea. Nausea, dizziness, and headache. Warning: intolerance for alcohol can occur up to 4 days after dimethylformamide exposure. N,N-dimethylformamide is considered to be a potent liver toxin.

ROUTE OF EXPOSURE

Skin Absorption: Readily absorbed through skin. Harmful if absorbed through skin.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. Harmful if inhaled.

Ingestion: May be harmful if swallowed.

Multiple Routes: Causes eye and skin irritation.

TARGET ORGAN INFORMATION

Liver. Kidneys. Central nervous system. Cardiovascular system. Blood.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

CHRONIC EXPOSURE - TERATOGEN

Result: May cause congenital malformation in the fetus.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 2265

Class: 3

PG: III

Proper Shipping Name: N,N-Dimethylformamide

IMDG

UN#: 2265

Class: 3

PG: III

Proper Shipping Name: N,N-Dimethylformamide

Marine Pollutant: No

Severe Marine Pollutant: No

IATA

UN#: 2265

Class: 3

PG: III

Proper Shipping Name: N,N-Dimethylformamide

Inhalation Packing Group I: No

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: T

Toxic.

R-PHRASES: 61 20/21 36

May cause harm to the unborn child. Harmful by inhalation and in contact with skin. Irritating to eyes.

S-PHRASES: 53 45

Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. DUALSYSTEMS BIOTECH shall not be held liable for any damage resulting from handling or from contact with the above product. See our website at

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