

**Safety Data Sheet**

according to UK REACH Regulation

**3'-Fluoro-2',3'-dideoxyuridine**

Revision date: 27.04.2022

Product code: 2940

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

3'-Fluoro-2',3'-dideoxyuridine

**Further trade names**

Uridine, 2',3'-dideoxy-3'-fluoro-

**Synonyms:**

1-(2,3-Dideoxy-3-fluoro-beta-D-ribofuranosyl)uracil; 2',3'-Dideoxy-3'-fluorouridine

CAS No: 41107-56-6

Index No: 616-089-00-X

EC No: 415-360-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Precursor for 5-[<sup>3</sup>H]FLIUPrecursor for 5-[<sup>18</sup>F]FLFU**1.3. Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläser-Straße 10-14	
Place:	01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 65
e-mail:	info@abx.de	
Contact person:	Dr. Christoph Meyer	Telephone: +49 3528 4041 8732
e-mail:	meyer@abx.de	
Internet:	http://www.abx.de	

**1.4. Emergency telephone number:** +49 3528 4041 60**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Muta. 2; H341

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

5-(2,4-dioxo-1,2,3,4-tetrahydropyrimidin-3-yl)-3-fluoro-2-hydroxymethyltetrahydrofuran

**Signal word:** Warning**Pictograms:****Hazard statements**

H341 Suspected of causing genetic defects.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

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protection.

**SECTION 3: Composition/information on ingredients****3.1. Substances****Chemical characterization**

Uridine, 2',3'-dideoxy-3'-fluoro-

Sum formula: C<sub>9</sub>H<sub>11</sub>FN<sub>2</sub>O<sub>4</sub>

Molecular weight: 230.19

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
41107-56-6	5-(2,4-dioxo-1,2,3,4-tetrahydropyrimidine)-3-fluoro-2-hydroxymethyltetrahydrofuran			95 - < 100 %
	415-360-8	616-089-00-X		
	Muta. 2; H341			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

If swallowed, immediately drink: Water.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

**SECTION 6: Accidental release measures****6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Advice on safe handling**

Do not breathe dust.

**Advice on general occupational hygiene**

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Further information on storage conditions**

Recommended storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Additional advice on limit values**

To date, no national critical limit values exist.

#### 8.2. Exposure controls

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Single-use gloves. NBR (Nitrile rubber).

**Skin protection**

Lab apron. Chemical resistant safety shoes.

**Respiratory protection**

Work in well-ventilated zones or use proper respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state: solid  
Colour: whitish

**Changes in the physical state**

Melting point/freezing point: 184 - 188 °C

Water solubility: The study does not need to be conducted  
because the substance is known to be  
insoluble in water.

**Solubility in other solvents**

dimethylsulphoxide (DMSO).

### SECTION 10: Stability and reactivity

#### 10.4. Conditions to avoid

Light.

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### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). Fluorines-carbon-hydrogens.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Further information

Toxicological data are not available.

## SECTION 12: Ecological information

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains.

#### List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### Other applicable information

Not a hazardous material with respect to these transportation regulations.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

#### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

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#### SECTION 16: Other information

##### Relevant H and EUH statements (number and full text)

H341

Suspected of causing genetic defects.