

# Safety Data Sheet

according to UK REACH Regulation

## DMTr-lyxothymidine

Revision date: 29.07.2024

Product code: 1180

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

DMTr-lyxothymidine

##### Further trade names

2,4(1H,3H)-Pyrimidinedione, 1-[5-O-  
[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy- $\beta$ -D-threo-pentofuranosyl]-5-methyl-

##### Synonyms:

1-[5-O-(4,4'-Dimethoxytrityl)-2-deoxy- $\beta$ -D-threo-pentofuranosyl]-thymine; DMTr-lyxothymidine;  
2,4(1H,3H)-Pyrimidinedione, 1-[5-O-  
[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy- $\beta$ -D-threo-pentofuranosyl]-5-methyl-; 1-[5-O-  
[Bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-D-threo-pentofuranosyl]-5-methyl-2,4(1H,3H)pyrimidinedione;  
5'-O-(4,4'-Dimethoxytrityl)-3'-hydroxythymidine

CAS No: 112501-53-8

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Precursor for [18F]FLT  
(3'-Deoxy-3'-[18F]fluorothymidine)

#### 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

This substance is not classified as hazardous in accordance with GB CLP Regulation.

#### 2.2. Label elements

##### GB CLP Regulation

##### Precautionary statements

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

#### 2.3. Other hazards

Warning - substance not yet tested completely.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Chemical characterization

2,4(1H,3H)-Pyrimidinedione, 1-[5-O-  
[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy- $\beta$ -D-threo-pentofuranosyl]-5-methyl-

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Sum formula: C<sub>31</sub>H<sub>32</sub>N<sub>2</sub>O<sub>7</sub>  
Molecular weight: 544.6 g/mol g/mol

### Relevant ingredients

none (according to UK REACH Regulation)

## 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. Call a physician immediately.

## 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. Treat the recovered material as prescribed in the section on waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Do not breathe dust. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment. When using do not eat, drink, smoke, sniff.

#### 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 dry. Keep container tightly closed.

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### Further information on storage conditions

Recommended storage temperature:

of °C: 2

up to °C: 8

Protect against: Light.

Store under (Gas): argon. Nitrogen.

## 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

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

## SECTION 9: Physical and chemical properties

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

Physical state:

solid

Colour:

colourless

Melting point/freezing point:

115 °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

Chloroform. ethyl acetate.

## SECTION 10: Stability and reactivity

### 10.4. Conditions to avoid

Light.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

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

### 11.2. Information on other hazards

#### 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

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#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### 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

##### National regulatory information

Water hazard class (D): 3 - highly hazardous to water

#### SECTION 16: Other information