

Safety Data Sheet

according to UK REACH Regulation

3-N-Boc-5-O-dimethoxytrityl-3-O-nosyl-thymidine

Revision date: 01.11.2022

Product code: PE-SC-10-R-V2a

Page 1 of 4

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

3-N-Boc-5-O-dimethoxytrityl-3-O-nosyl-thymidine

Further trade names

(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-5-O-(triphenylmethyl)-beta-D-threo-pentofuranosyl]-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester

Synonyms: 3-N-Boc-1-[5-O-(4,4'-dimethoxytrityl)

-3-O-nitrophenylsulfonyl-2-deoxy-beta-D-lyxofuranosyl]thymidine; Boc-FLT-Precursor

CAS No: 444717-23-1

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

Acute Tox. 4; H332
 Acute Tox. 4; H312
 Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Signal word:** Warning**Pictograms:****Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Safety Data Sheet

according to UK REACH Regulation

3-N-Boc-5-O-dimethoxytrityl-3-O-nosyl-thymidine

Revision date: 01.11.2022

Product code: PE-SC-10-R-V2a

Page 2 of 4

P330	Rinse mouth.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.

2.3. Other hazards

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-5-O-(triphenylmethyl)-beta-D-threo-pentofuranosyl]-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester

Sum formula: C42H43N3O13S

Molecular weight: 829.87

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
444717-23-1	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	95 - < 100 %
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302	

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
444717-23-1		3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	95 - < 100 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx). Sulfur oxides.

SECTION 6: Accidental release measures

Safety Data Sheet

according to UK REACH Regulation

3-N-Boc-5-O-dimethoxytrityl-3-O-nosyl-thymidine

Revision date: 01.11.2022

Product code: PE-SC-10-R-V2a

Page 3 of 4

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on general occupational hygiene**

Do not eat, drink, smoke or sneeze at the workplace. Thorough skin-cleansing after handling the product.

7.2. Conditions for safe storage, including any incompatibilities**Further information on storage conditions**

storage temperature:

of °C: -25

up to °C: -15

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: solid
 Colour: light yellow
 Odour: odourless

Changes in the physical state

Melting point/freezing point: 105 - 120 °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, Dimethylformamide, dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
444717-23-1	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Safety Data Sheet

according to UK REACH Regulation

3-N-Boc-5-O-dimethoxytrityl-3-O-nosyl-thymidine

Revision date: 01.11.2022

Product code: PE-SC-10-R-V2a

Page 4 of 4

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Other applicable information

Not a hazardous material with respect to 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

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.