

**Safety Data Sheet**

according to UK REACH Regulation

**EDTMP**

Revision date: 20.06.2022

Product code: 7165

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

EDTMP

**Further trade names**

Phosphonic acid, P,P',P'',P'''-[1,2-ethanediybis[nitrilobis(methylene)]]tetrakis-

**Synonyms:**

Phosphonic acid, [1,2-ethanediybis[nitrilobis(methylene)]]tetrakis-; Phosphonic acid, [ethylenebis(nitrilodimethylene)]tetra-; Briquest 422-25S; Chelating agent 540; Chelest PH 540; Cublen 115; Dequest 2040; Dequest 2041; Editempa; EDPA; EDPA (chelating agent); EDTF; EDTMP; EDTMPA; EDTPA; EDTPH; Ethylenedi(nitrilodimethylene)tetraphosphonic acid; Ethylenediamine-N,N,N',N'-tetra(methylphosphonic acid); Ethylenediamine-N,N,N',N'-tetrakis(methylenephosphonic acid); Ethylenediaminetetra(methylenephosphonic acid); Ethylenediaminetetrakis(methylenephosphonic acid); Ethylenediaminetetrakis(methylphosphonic acid); Ethylenediaminetetramethylenephosphonate; Ethylenediaminetetra(methylenephosphonic acid); N,N,N',N'-Tetrakis(phosphonomethyl)ethylenediamine

CAS No: 1429-50-1

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

Ligand for radiolabelling

**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**

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

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

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**Hazard statements**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Phosphonic acid, P,P',P'',P'''-[1,2-ethanediyldis[nitrilobis(methylene)]]tetrakis-

Sum formula: C<sub>6</sub>H<sub>20</sub>N<sub>2</sub>O<sub>12</sub>P<sub>4</sub> x H<sub>2</sub>O

Molecular weight: 436.12

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1429-50-1	EDTMP			95 - < 100 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			

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. 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.

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**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.

**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:

whitish

**Changes in the physical state**

Water solubility:

easily soluble.

**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)., Phosphorus compounds.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****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. Dispose of waste according to applicable legislation.

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

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.