

Safety Data Sheet

according to UK REACH Regulation

Tetrofosmin

Revision date: 20.06.2022

Product code: 7310

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

Tetrofosmin

Further trade names

3,12-Dioxy-6,9-diphosphatetradecane, 6,9-bis(2-ethoxyethyl)-

Synonyme:

Tetrofosmin; P53

CAS No:

127502-06-1

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

Complexation agent für [99m Tc]-Labelling

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

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info@abx.de

Contact person:

Dr. Christoph Meyer

Telephone: +49 3528 4041 8732

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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

STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation**

Signal word:

Warning

Pictograms:

**Hazard statements**

H226

Flammable liquid and vapour.

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.

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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**

3,12-Dioxy-6,9-diphosphatetradecane, 6,9-bis(2-ethoxyethyl)-

Sum formula: C₁₈H₄₀O₄P₂

Molecular weight: 382.46 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
127502-06-1	Tetrofosmin			100 %
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			

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. Medical treatment necessary.

After contact with skin

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

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.

After ingestion

Never give anything by mouth to an unconscious person or a person with cramps. If swallowed, immediately drink: Water. Medical treatment necessary.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Suitable extinguishing media: Water. Foam. Extinguishing powder. Carbon dioxide (CO₂).**5.2. Special hazards arising from the substance or mixture**In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Phosphorus oxides.**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

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**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). 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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store under (Gas): argon. Nitrogen. Keep container tightly closed.
storage temperature:
of °C: 2
up to °C: 8

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 gas/fumes/vapour/spray.

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

Eye protection: Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

Skin protection

Body protection: Lab apron. Chemical resistant safety shoes.

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

Physical state:	liquid
Colour:	yellow

Test method**Changes in the physical state**

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Flash point:

56 °C No flash point according to standard method.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Ignition hazard. Reacts violently with peroxides.

10.6. Hazardous decomposition products

Organophosphorus compounds. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No information available.

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: irritant.

SECTION 12: Ecological information**12.1. Toxicity**

Do not allow uncontrolled discharge of product into the environment.

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**

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 - 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

SECTION 14: Transport information**Other applicable information**

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

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Restrictions on use (REACH, annex XVII):

Entry 3

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)**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.