

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Tetrofosmin

Print date: 21.06.2011

Product code: 7310

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product name**

Tetrofosmin

Further trade names

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

Synonyme:

Tetrofosmin; P53

CAS No.: 127502-06-1

Use of the substance/mixture

Complexation agent für [99m Tc]-Labelling

Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical compounds	
	Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläserstraße 10-14	
Place:	D-01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 61
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Internet:	http://www.abx.de	

Emergency telephone: +49 3528 4041 60**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Irritant

R-phrases:

Irritating to eyes, respiratory system and skin.

GHS classification

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Skin corrosion/irritation: Skin Irrit. 2

Hazard Statements:

Causes serious eye irritation.

May cause respiratory irritation.

Causes skin irritation.

Label elements

Signal word:	Warning
Pictograms:	GHS02-GHS07



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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.
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

Substances

Chemical characterization

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

Sum formula: C₁₈H₄₀O₄P₂

Molecular weight: 347,24 g/mol

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
	Tetrofosmin	
127502-06-1	Xi R36/37/38	100 %
	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319 H335 H315	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

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

Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: Water. Foam. Extinguishing powder. Carbon dioxide (CO₂).

Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂). Phosphorus oxides.

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Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

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

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

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage**Precautions for safe handling****Advice on safe handling**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

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**Control parameters****Exposure controls****Occupational exposure controls**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

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

Hand protection

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

Eye protection

Eye protection: Tightly sealed safety glasses.

Skin protection

Skin protection: Lab apron. Chemical resistant safety shoes.

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

Physical state: liquid
Colour: yellow

Test method**Changes in the physical state**

Flash point: 56 °C No flash point according to standard method.

SECTION 10: Stability and reactivity**Reactivity**

Ignition hazard. Reacts violently with peroxides.

Hazardous decomposition products

Organophosphorus compounds. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information**Information on toxicological effects****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**Toxicity**

Do not allow uncontrolled leakage of product into the environment.

Further information

Do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations**Waste treatment methods****Advice on disposal**

Waste disposal according to official state regulations.

Waste disposal number of waste from 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 dangerous substances
Classified as hazardous waste.

Waste disposal number of 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 dangerous substances
Classified as hazardous waste.

SECTION 14: Transport information

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Other applicable information

Not a hazardous material with respect to these transportation regulations.

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

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

36/37/38 Irritating to eyes, respiratory system and skin.

Full text of H-Statements referred to under sections 2 and 3

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