

EuDOTA

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue : 18/01/21 – Version 1.1

SECTION 1: Identification of the substan	ce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: EuDOTA
Chemical name	: (1,4,7,10-tetraazacyclododecan-1,4,7,10-tetraacetate macrocyclic scaffold chelating an Europium (III) ion) with a sodium counter-ion
CAS number	: 2304618-91-3
Formula	$: C_{16}H_{24}N_4O_8Eu.Na$
1.2. Relevant identified uses of the substance or mixture and uses advised against	
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics, or other clinical uses.
Function or use category	: Laboratory chemicals
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
	POLYVALAN SAS
	Ens de Lyon - 46, allée d'Italie
	Bâtiment LR6 - 69364 LYON Cedex 07 – France
	RCS Lyon 824 293 377 00019
	EORI : FR82429337700019
	contact@polyvalan.com
1.4. Emergency telephone number	
No additional information available	
SECTION 2 : Hazards identification	

2.1. Classification of the substance or mixture

CLP regulation (classification / labelling) was not applied to this substance which is meant for scientific research and development, and is not placed on the market, and is to be used under controlled conditions in accordance with Community workplace and environmental legislation.

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
No labelling applicable		
2.3. Other hazards		
Other hazards not contributing to the	: The main risk of toxicity arises from the use of this compound in conditions where the lanthanide atom can be released,	
classification	which may happen in severe conditions. As a consequence, the hazards described in this document are related to the	
	lanthanides used in the preparation of complexes, as it is likely that lanthanides significantly and uniquely affect	
	biochemical pathways, thus altering physiological processes in the tissues of humans and animals.	

SECTION 3 : Composition/information on ingree	dients	
3.1. Substances		
The present product is an Europium (III) mono a	anionic complex.	
Name	Chemical name	%
EuDOTA	(1,4,7,10-tetraazacyclododecan-1,4,7,10-tetraacetate macrocyclic scaffold chelating an Europium (III) ion)	100
	with a sodium counter-ion	
Full text of H-statements: see section 16		
3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a	a physician
	immediately.	
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. W	ash
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes.	
First-aid measures after ingestion	: Rinse mouth out with water. Call a physician immediately.	
4.2. Most important symptoms and effects, bot	th acute and delayed	
Symptoms/injuries after skin contact	: May cause moderate irritation. Symptoms/injuries after eye contact	
Symptoms/injuries after eye contact	: Eye irritation.	
4.3. Indication of any immediate medical attent	tion and special treatment needed	
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Dry powder. Foam.	
5.2. Special hazards arising from the substance	or mixture	
Hazardous decomposition products in case of	: Toxic fumes may be released.	
fire		
5.3. Advice for firefighters		

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipm	nent and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8:
	"Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment a	
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Do not pipette liquid using a mouth
	pipette. Keep only in original container. Avoid dust formation.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep only in original container. Store in a dry place. Store in a closed container.
Storage temperature	: room temperature (20 °C)
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Special rules on packaging	: Keep only in original container.
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection	tion
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection:	: In case of insufficient ventilation, wear suitable respiratory equipment. Only required if dusts and aerosols are
	generated
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemic	al properties
Physical state	: solid
Appearance	: powder.
Colour	: white (can be light brown)
Odour	: None.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Heat. Moisture.

10.5. Incompatible materials Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Lanthanide oxides

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	
	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
12.6. Other adverse effects No additional information available	
12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations	
12.6. Other adverse effects No additional information available	

SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IAT	TA / ADN	
14.1. UN number		
UN-No. (ADR)	: Not applicable	
UN-No. (IMDG)	: Not applicable	
UN-No. (IATA)	: Not applicable	
UN-No. (ADN)	: Not applicable	
UN-No. (RID)	: Not applicable	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
Proper Shipping Name (ADN)	: Not applicable	
Proper Shipping Name (RID)	: Not applicable	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: Not applicable	
IMDG		
Transport hazard class(es) (IMDG)	: Not applicable	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not applicable	
ADN		
Transport hazard class(es) (ADN)	: Not applicable	
RID		
Transport hazard class(es) (RID)	: Not applicable	
14.4. Packing group		
Packing group (ADR)	: Not applicable	
Packing group (IMDG)	: Not applicable	
Packing group (IATA)	: Not applicable	
Packing group (ADN)	: Not applicable	
Packing group (RID)	: Not applicable	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
- Overland transport		
Not applicable		
- Transport by sea		
Not applicable		

- Air transport Not applicable - Inland waterway transport Not applicable - Rail transport . Not applicable 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations No REACH Annex XVII restrictions EuDOTA is not on the REACH Candidate List EuDOTA is not on the REACH Annex XIV List 15.1.2. National regulations No additional information available 15.2. Chemical safety assessment No chemical safety assessment has been carried out

SECTION 16: Other information SDS EU (REACH Annex II)

MSDS is issued according to the current European regulation available on European Union at its date of edition. This MSDS is only in compliance to EU requesting at the date of issuing.