

Safety Data Sheet

#20358510 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
BAPTA (1,2-Bis(2-aminophenoxy)ethane-N,N,N,N-tetraacetic acid)	85233-19-8	C22H24N2O10	10	20 Jul 2026

SECTION 1

Identification

Product name	BAPTA (1,2-Bis(2-aminophenoxy)ethane-N,N,N,N-tetraacetic acid)
CAS number	85233-19-8
Chemical formula	C22H24N2O10
Molecular weight	476.43
SMILES	<chem>C1=CC=C(C(=C1)N(CC(=O)O)CC(=O)O)OCCOC2=CC=CC=C2N(CC(=O)O)CC(=O)O</chem>
EC / EINECS number	629-173-6
Recommended use & restrictions	For analytical purposes, scientific research and development (professional use only). Not for human consumption or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing

Other hazards (e.g. PBT / vPvB, not classified) Does not meet PBT or vPvB criteria under REACH Annex XIII.

SECTION 3

Composition / information on ingredients

Purity / concentration	100%
Impurities / stabilising additives	Not specified

SECTION 4

First-aid measures

Inhalation	Remove victim to fresh air; keep at rest. Give oxygen/artificial respiration if breathing difficulties persist. Seek medical attention.
Skin contact	Remove contaminated clothing immediately; wash skin with plenty of water. Do not remove stuck clothing. Consult doctor if irritation persists.
Eye contact	Rinse immediately with water for several minutes. Remove contact lenses if easy. Continue rinsing. Seek medical attention if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical attention.
Symptoms / effects & medical attention	Inhalation: cough, shortness of breath, headache. Skin: moderate irritation (burning, redness, swelling, itching). Eyes: serious irritation (redness, itching, tearing, stinging). Ingestion: digestive tract irritation (abdominal pain, nausea).

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam, dry powder, carbon dioxide, water spray, sand.
Unsuitable extinguishing media	None known
Special hazards	Hazardous decomposition products: carbon oxides (CO, CO ₂), nitrogen oxides.
Advice for firefighters	Keep container closed and away from heat/sparks/flames. Cool exposed containers with water spray. Do not enter fire area without proper protective equipment.

SECTION 6

Accidental release measures

Personal precautions & PPE	Isolate from fire; avoid dust formation. Wear protective equipment (respiratory, chemically protective clothing). Evacuate unnecessary personnel.
Environmental precautions	Prevent entry into sewers/public waters. Notify authorities if contamination occurs.
Containment & clean-up methods	Sweep/shovel into containers for disposal. Ventilate area thoroughly.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	-15 to -20 °C
Precautions for safe handling	Avoid dust formation. Provide local exhaust/room ventilation. Wash contaminated clothing and skin before breaks/eating.
Conditions for safe storage (incompatibilities)	Keep in original container, cool, well-ventilated, away from heat/direct sunlight. Store closed. Incompatible with strong oxidizing agents and ignition sources.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	Not specified
DNEC/PNEC data	Ensure adequate ventilation, especially in confined areas.
Eye / face protection	Safety glasses
Skin / hand protection	Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins. For personal protection standards, see Section 16.
Respiratory protection	Dust mask (FFP2/FFP3)

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	<i>Not applicable</i>
Acidity	Acid DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	149 - 159 °C (Merck) 177 - 179 °C (Thermo) 189 - 190 °C (Apollo) DERIVED FROM: LITERATURE
Boiling point	Not specified DERIVED FROM: LITERATURE
Solubility (water)	Not specified DERIVED FROM: LITERATURE
pH	Not specified DERIVED FROM: LITERATURE
Vapour pressure	Not specified DERIVED FROM: LITERATURE
Partition coefficient (log Pow)	Not specified DERIVED FROM: LITERATURE
Auto-ignition / decomposition temp	Not specified DERIVED FROM: LITERATURE

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under recommended handling and storage conditions
Conditions to avoid	Sunlight, heat, hot surfaces, sparks, open flames, ignition sources
Incompatible materials	Strong oxidizing agents, ignition sources, direct sunlight, heat.
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	Not specified
Skin corrosion / irritation	Category 2 skin irritant (H315).
Eye corrosion / irritation	Category 2 serious eye irritant (H319).
Respiratory / skin sensitisation	Not specified
Carcinogenicity / mutagenicity / reproductive	Not specified
STOT (single / repeated exposure)	Category 3 respiratory irritation (H335).
Aspiration hazard	Not specified
Endocrine disruptors	Not specified

SECTION 12

Ecological information

Aquatic toxicity	Not specified
Persistence & degradability	Not specified
Bioaccumulative potential	Not specified
Mobility in soil	Not specified
PBT / vPvB assessment	Not PBT/vPvB under REACH Annex XIII.

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose in accordance with local/national regulations. Avoid release to the environment
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SECTION 14

Transport information

UN number	Not applicable
Proper shipping name	Not applicable
Class	Not applicable
Packing group	Not applicable
Transport category	Not applicable
Tunnel code	Not applicable
Packing instruction (ADR)	Not applicable
Packing instruction (IMDG)	Not applicable
Environmental hazards	Not applicable
Special precautions for user	Not applicable

SECTION 15

Regulatory information

REACH code	Y113
UFI code	Not specified
ECHA notification	Not specified
Chemical safety assessment carried out?	Not required

SECTION 16

Other information

Revision notes / other information	Data based on Regulation (EC) No 1272/2008. No supplementary information available. All eye/face protection should comply with EN ISO 16321-1:2022
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