

Safety Data Sheet

#90027782 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

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PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
alpha-Naphtholbenzein	145-50-6	C27H18O2	10	03 Aug 2026

SECTION 1

Identification

Product name	alpha-Naphtholbenzein
CAS number	145-50-6
Chemical formula	C27H18O2
Molecular weight	374.43
SMILES	<chem>C1=CC=C(C=C1)/C(=C\2/C=CC(=O)C3=CC=CC=C23)/C4=CC=C(C5=CC=CC=C54)O</chem>
EC / EINECS number	205-656-3
Recommended use & restrictions	Laboratory use, industrial use, and professional use (for professional use only)
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)	This substance/mixture does not meet the PBT or vPvB criteria of REACH regulation, annex XIII. Does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). Does not contain components considered to have endocrine-disrupting properties
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SECTION 3

Composition / information on ingredients

Purity / concentration	100%
Impurities / stabilising additives	Not provided

SECTION 4

First-aid measures

Inhalation	Remove victim to fresh air, keep at rest; give oxygen or artificial respiration if breathing difficulties persist; seek medical advice
Skin contact	Remove contaminated clothing, wash immediately with plenty of soap and water; do not remove stuck clothing; consult doctor if irritation persists
Eye contact	Rinse immediately with plenty of water, remove contact lenses if present, continue rinsing; seek medical advice if irritation persists
Ingestion	Rinse mouth with water; do not induce vomiting; seek medical advice
Symptoms / effects & medical attention	See Section 11

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam, dry powder, carbon dioxide, water spray, sand
Unsuitable extinguishing media	None known
Special hazards	Carbon oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Keep container tightly closed and away from heat, sparks, and flames; use water spray for cooling exposed containers; prevent firefighting water from entering the environment

SECTION 6

Accidental release measures

Personal precautions & PPE	Isolate from fire; avoid dust formation; eliminate ignition sources; evacuate unnecessary personnel; wear protective equipment
Environmental precautions	Prevent entry into sewers and public waters; notify authorities if product enters sewers or public waters
Containment & clean-up methods	Sweep or shovel into suitable containers; minimize dust generation; store away from other materials

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid dust formation; provide local exhaust or general room ventilation; take off contaminated clothing and wash before reuse
Conditions for safe storage (incompatibilities)	Keep in original container, away from heat sources, direct sunlight, and ignition sources; store in a dry, closed container

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>No data available</i>
DNEC/PNEC data	<i>No data available</i>
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.
Respiratory protection	Full-face respirator Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Neutral DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	Dark red to dark brown DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	230-235 °C DERIVED FROM: LITERATURE
Boiling point	Not applicable
Solubility (water)	Not applicable
pH	Not applicable
Vapour pressure	Not applicable
Partition coefficient (log Pow)	Not applicable
Auto-ignition / decomposition temp	Not applicable

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under recommended handling and storage conditions
Conditions to avoid	Sunlight, heat, sparks, open flames, ignition sources, strong oxidisers
Incompatible materials	Strong oxidizers, sources of ignition, direct sunlight, heat sources. Strong acids. Strong bases (alkalis)
Hazardous decomposition products	See section 5

SECTION 11**Toxicological information**

Acute toxicity (LD50 / LC50)	<i>Not applicable</i>
Skin corrosion / irritation	Causes skin irritation
Eye corrosion / irritation	Causes serious eye irritation
Respiratory / skin sensitisation	Not classified
Carcinogenicity	Not classified
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	May cause respiratory irritation.
Aspiration hazard	Not classified
Endocrine disruptors	Not classified

SECTION 12**Ecological information**

Aquatic toxicity	<i>Not applicable</i>
Persistence & degradability	<i>Not applicable</i>
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	Does not meet PBT/vPvB criteria

SECTION 13**Disposal considerations**

Waste treatment / disposal methods	Dispose of in accordance with local/national regulations
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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	For specific precautions see Section 8 and Section 13

SECTION 15

Regulatory information

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

SECTION 16

Other information

Revision notes / other information	Eye/Face protection standard: EN ISO 16321:1-2022
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