

Safety Data Sheet

#30601559 · 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
Albendazole	54965-21-8	C12H15N3O2S	10	15 Jul 2026

SECTION 1

Identification

Product name	Albendazole
CAS number	54965-21-8
Chemical formula	C12H15N3O2S
Molecular weight	265.33
SMILES	<chem>O=C(OC)NC1=NC=2C=C(SCCC)C=CC2N1</chem>
EC / EINECS number	259-414-7
Recommended use & restrictions	Research and development. Laboratory Chemicals. Manufacture of substances. Not suitable 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

**DANGER**

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
CODE	PRECAUTIONARY STATEMENT
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P308+313	IF exposed or concerned: Get medical advice/attention
Other hazards (e.g. PBT / vPvB, not classified)	Contains a known or suspected reproductive toxin; very toxic to aquatic life with long-lasting effects.

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	<i>Not applicable</i>

SECTION 4

First-aid measures

Inhalation	Move to fresh air; provide oxygen if breathing is difficult.
Skin contact	Rinse with plenty of water; remove contaminated clothing; seek medical advice if irritation persists.
Eye contact	Rinse cautiously with water for several minutes; remove contact lenses if present; seek medical advice.
Ingestion	Rinse mouth; do NOT induce vomiting; seek medical advice immediately.
Symptoms / effects & medical attention	<i>Not applicable</i>

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder or water fog
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6

Accidental release measures

Personal precautions & PPE	Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Containment & clean-up methods	Collect spillage with shovel, broom or the like.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product
Conditions for safe storage (incompatibilities)	Store at ambient temperature. Store in a dry place. Store in a closed container.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</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	Half-mask with filter 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	101 °C DERIVED FROM: LITERATURE
Acidity	Neutral DERIVED FROM: LITERATURE
Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	Off-white DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	205 - 215°C DERIVED FROM: LITERATURE
Boiling point	<i>Not applicable</i>
Solubility (water)	<i>Not applicable</i>
pH	<i>Not applicable</i>
Vapour pressure	<i>Not applicable</i>
Partition coefficient (log Pow)	<i>Not applicable</i>
Auto-ignition / decomposition temp	<i>Not applicable</i>

SECTION 10

Stability & reactivity

Chemical stability / reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Conditions to avoid	The product is chemically stable under the recommended storage conditions. Violent reactions possible with: Strong oxidising agents.
Incompatible materials	Strong acids. Strong bases (alkalis). Strong oxidising agents
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	Oral LD50: 2400 mg/kg (Rat); Dermal LD50: Not specified; Inhalation LC50: Not specified
Skin corrosion / irritation	Causes skin irritation; causes serious eye irritation.
Eye corrosion / irritation	Causes serious eye irritation
Respiratory / skin sensitisation	<i>Not applicable</i>
Carcinogenicity	May damage fertility or the unborn child.
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	Single exposure: May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	<i>Not applicable</i>
Endocrine disruptors	Does not contain components considered to have endocrine-disrupting properties.

SECTION 12

Ecological information

Aquatic toxicity	Very toxic to aquatic life with long-lasting effects EC50- Daphnia Magna- 0.024 mg/l- 48hours (Lit.) EC50-Pseudokirchneriella subcapitata (green algae) - > 0.42 mg/l - 72 hours (Lit.)
Persistence & degradability	No data available. No data available
Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
PBT / vPvB assessment	Not classified as PBT/vPvB.

SECTION 13

Disposal considerations

Waste treatment / disposal methods	<i>Not applicable</i>
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SECTION 14

Transport information

UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	9
Packing group	III
Transport category	3
Tunnel code	-
Packing instruction (ADR)	P002
Packing instruction (IMDG)	P002
Environmental hazards	Yes.
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice



SECTION 15

Regulatory information

REACH code	Y110
UFI code	<i>Not applicable</i>
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	<i>Not applicable</i>

SECTION 16

Other information

Revision notes / other information	<i>Not applicable</i>
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