

Safety Data Sheet

#34470826 · 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
Thiamphenicol	15318-45-3	C₁₂H₁₅Cl₂NO₅S	10	24 Aug 2026

SECTION 1

Identification

Product name	Thiamphenicol
CAS number	15318-45-3
Chemical formula	C ₁₂ H ₁₅ Cl ₂ NO ₅ S
Molecular weight	356.22
SMILES	<chem>CS(=O)(=O)C1=CC=C(C=C1)[C@H]([C@@H](CO)NC(=O)C(Cl)Cl)O</chem>
EC / EINECS number	<i>Not applicable</i>
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human 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
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
CODE	PRECAUTIONARY STATEMENT
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P280	Wear protective gloves/protective clothing/eye protection/face protection
P308+P313	IF exposed or concerned: Get medical advice/attention
P501	Dispose of contents/container to an approved waste disposal plant
Other hazards (e.g. PBT / vPvB, not classified)	Not applicable

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing; give oxygen or artificial respiration if necessary; if breathing difficulties persist, get medical advice/attention.
Skin contact	After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of water; if irritation persists, consult a doctor.
Eye contact	Rinse immediately with plenty of water; remove contact lenses if present and easy to do; continue rinsing; if eye irritation persists, get medical advice/attention.
Ingestion	Rinse mouth out with water; do not induce vomiting; get medical advice/attention.
Symptoms / effects & medical attention	Treat symptomatically.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam, Dry powder, Carbon dioxide, Water spray, Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
Special hazards	Carbon oxides (CO, CO ₂), Nitrogen oxides, Sulphur oxides, Hydrogen chloride gas.
Advice for firefighters	Use water spray or fog for cooling exposed containers; do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6

Accidental release measures

Personal precautions & PPE	Wear recommended personal protective equipment; evacuate unnecessary personnel; avoid dust formation; eliminate all sources of ignition.
Environmental precautions	Prevent entry to sewers and public waters; notify authorities if product enters sewers or public waters.
Containment & clean-up methods	Sweep or shovel into suitable containers; put in a closed container for disposal.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid creating or spreading dust; provide local exhaust or general room ventilation.
Conditions for safe storage (incompatibilities)	Keep only in the original container in a cool, well ventilated place away from heat sources and direct sunlight; keep container closed when not in use; incompatible with strong oxidisers.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL) *Not applicable*

DNEC/PNEC data *Not applicable*

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 Gloves: Nitrile Rubber, 0.11mm (480 mins).

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 *Not applicable*

Acidity Neutral
DERIVED FROM: LITERATURE

Appearance / physical state *Not applicable*

Colour *Not applicable*

Odour *Not applicable*

Melting / freezing point 166 °C
DERIVED FROM: LITERATURE

Boiling point *Not applicable*

Solubility (water) Soluble in Ethanol.
DERIVED FROM: LITERATURE

pH *Not applicable*

Vapour pressure *Not applicable*

Partition coefficient (log Pow) 0.230
DERIVED FROM: LITERATURE

Auto-ignition / decomposition temp *Not applicable*

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under normal conditions.
Conditions to avoid	Heat sources, direct sunlight, sources of ignition.
Incompatible materials	Strong oxidisers.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen chloride gas. See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LD50 oral rat > 5000 mg/kg
Skin corrosion / irritation	<i>No data available</i>
Eye corrosion / irritation	<i>No data available</i>
Respiratory / skin sensitisation	<i>No data available</i>
Carcinogenicity	<i>No data available</i>
Mutagenicity	<i>No data available</i>
Reproductive toxicity	Oral-rat TDLo:150 mg/kg (9-14D preg)
STOT (single / repeated exposure)	<i>Not applicable</i>
Aspiration hazard	<i>Not applicable</i>
Endocrine disruptors	This product do contain any known or suspected endocrine disruptors.

SECTION 12

Ecological information

Aquatic toxicity	EC50 72h - Algae [1] 8,86 mg/l (72 Hours, Pseudokirchneriella subcapitata (Green algae)) NOEC chronic algae 4,06 mg/l (72 Hours, Pseudokirchneriella subcapitata (Green algae))
Persistence & degradability	Not readily biodegradable
Bioaccumulative potential	0.230
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII; This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 13

Disposal considerations

Waste treatment / disposal methods

Dispose in a safe manner in accordance with local/national regulations.

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 Y110

UFI code *Not applicable*

ECHA notification *Not applicable*

Chemical safety assessment carried out? Not required

SECTION 16

Other information

Revision notes / other information This SDS replaces version 1 05.04.2019

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