

Safety Data Sheet

#30727017 · 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
Ethionamide	536-33-4	C ₈ H ₁₀ N ₂ S	10	03 Aug 2026

SECTION 1

Identification

Product name	Ethionamide
CAS number	536-33-4
Chemical formula	C ₈ H ₁₀ N ₂ S
Molecular weight	166.24
SMILES	<chem>CCC1=NC=CC(=C1)C(=S)N</chem>
EC / EINECS number	208-628-9
Recommended use & restrictions	Laboratory use, industrial use, and 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
H302	Harmful if swallowed
H361	Suspected of damaging fertility or the unborn child

CODE	PRECAUTIONARY STATEMENT
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P501	Dispose of contents/container to an approved waste disposal plant

Other hazards (e.g. PBT / vPvB, not classified)	Not PBT or vPvB under REACH 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	None

SECTION 4

First-aid measures

Inhalation	Remove to fresh air; give oxygen/artificial respiration if needed; seek medical advice if breathing difficulties persist
Skin contact	Remove contaminated clothing; wash with plenty of water; seek medical advice if irritation persists
Eye contact	Rinse immediately with water; remove contact lenses if easy; continue rinsing; seek medical advice if irritation persists
Ingestion	Rinse mouth; 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 Nitrogen oxides (NO _x) Sulfur oxides Combustible.
Advice for firefighters	Keep container closed; cool exposed containers with water spray; use protective equipment; warn of toxic hazard

SECTION 6

Accidental release measures

Personal precautions & PPE	Isolate from ignition; avoid dust; use self-contained breathing apparatus and protective clothing for cleanup
Environmental precautions	Prevent entry into sewers/public waters; notify authorities if contamination occurs
Containment & clean-up methods	Sweep/shovel into containers; ventilate area; avoid contact with skin/eyes/clothing

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid dust; provide ventilation; wash hands before eating/smoking
Conditions for safe storage (incompatibilities)	Original container, cool, well-ventilated, away from heat/sunlight; incompatible with strong oxidizers/ignition sources

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	Not specified
DNEC/PNEC data	Not specified
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	Protective gloves.
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	Solid DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	160-162°C 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 storage conditions
Conditions to avoid	Heat, sparks, flames, direct sunlight, strong oxidizers
Incompatible materials	Strong oxidizers, ignition sources
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LD50 (Rat) - oral 1320 mg/kg Ref: Drugs in Japan, 6(111), 1982
Skin corrosion / irritation	Not classified
Eye corrosion / irritation	Not classified
Respiratory / skin sensitisation	Not specified
Carcinogenicity	Suspected human reproductive toxicant
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	<i>No data available</i>
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

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of in accordance with local regulations (sweep into containers for disposal)
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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	No data available
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice

SECTION 15

Regulatory information

REACH code	Y110
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 Respiratory protection standard: EN 14387
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