

Safety Data Sheet

#90026597 · 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
Imidazolidinyl urea	39236-46-9	C11H16N8O8	10	20 Aug 2026

SECTION 1

Identification

Product name	Imidazolidinyl urea
CAS number	39236-46-9
Chemical formula	C11H16N8O8
Molecular weight	388.29
SMILES	<chem>O=C(NCNC(=O)NC1C(=O)NC(=O)N1CO)NC2C(=O)NC(=O)N2CO</chem>
EC / EINECS number	254-372-6
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
H317	May cause an allergic skin reaction
CODE	PRECAUTIONARY STATEMENT
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+352	IF ON SKIN: Wash with soap and water
P308+313	IF exposed or concerned: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
Other hazards (e.g. PBT / vPvB, not classified)	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 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	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.
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Carbon oxides (CO, CO ₂), nitrogen oxides.
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	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
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	2 to 8 °C
Precautions for safe handling	Avoid creating or spreading dust; provide local exhaust or general room ventilation; wash hands and exposed areas before eating, drinking, or smoking.
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; store in a dry place; incompatible with strong oxidisers. Storage class: 11

SECTION 8

Exposure controls / personal protection

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

DNEC/PNEC data

Fresh water: PNEC = 5.78µg/L.
Fresh water sediment: PNEC = 88.78µg/kg sediment dw
Water intermittent: PNEC = 57.8µg/L
Microorganisms in sewage treatment: PNEC = 20mg/L
Soil (Agriculture): PNEC=14.35µg/kg soil dw
Marine water: PNEC = 0.58µg/L
Marine water sediment: PNEC = 8.88µg/kg sediment dw

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

Dust mask (FFP2/FFP3)
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)	1.24 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Base DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	240.5 °C DERIVED FROM: LITERATURE
Boiling point	Not applicable
Solubility (water)	Soluble in water DERIVED FROM: LITERATURE
pH	6 - 7.5 DERIVED FROM: LITERATURE
Vapour pressure	Not applicable
Partition coefficient (log Pow)	< 0.9 at 20 °C DERIVED FROM: LITERATURE
Auto-ignition / decomposition temp	410 °C DERIVED FROM: LITERATURE

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	Heat sources, direct sunlight, sources of ignition.
Incompatible materials	Strong oxidisers.
Hazardous decomposition products	Carbon oxides (CO, CO ₂), nitrogen oxides. See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LD50 Oral Rat 5200 mg/kg.
Skin corrosion / irritation	May cause moderate irritation.
Eye corrosion / irritation	Causes serious eye irritation.
Respiratory / skin sensitisation	May cause an allergic skin reaction; may cause sensitisation of susceptible persons. - Mouse, Result: The product is a skin sensitizer, sub-category 1B. (OECD Test Guideline 442B)
Carcinogenicity	<i>No data available</i>
Mutagenicity	Species: Rat Cell type: Liver cells Application Route: Oral Method: OECD Test Guideline 486 Result: negative
Reproductive toxicity	<i>No data available</i>
STOT (single / repeated exposure)	<i>No data available</i>
Aspiration hazard	<i>No data available</i>
Endocrine disruptors	This product does not contain y known or suspected Endocrine disruptors.

SECTION 12

Ecological information

Aquatic toxicity	LC50 fish 1 > 1000 mg/l Lepomis macrochirus 24hr.
Persistence & degradability	Result: 42.7 % - Not readily biodegradable
Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
PBT / vPvB assessment	This substance/mixture does not meet the PBT or vPvB criteria of REACH regulation, annex XIII.

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	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 : 3/25/2019 Version: 1.0
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