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Safety Data Sheet

#18110589 · 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
Uric acid	**69-93-2**	**C5H4N4O3**	**10**	**05 Aug 2026**

SECTION 1

Identification

Product name	Uric acid
CAS number	69-93-2
Chemical formula	C5H4N4O3
Molecular weight	168.11
SMILES	C12=C(NC(=O)N1)NC(=O)NC2=O
EC / EINECS number	200-720-7
Recommended use & restrictions	Laboratory use, industrial use, 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

NONE

CODE	PRECAUTIONARY STATEMENT
P280	Wear protective gloves/protective clothing/eye protection/face protection

Other hazards (e.g. PBT / vPvB, not classified)	This substance does not meet PBT or vPvB criteria 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

SECTION 3

Composition / information on ingredients

Purity / concentration	100% Uric Acid (CAS: 69-93-2)
Impurities / stabilising additives	None

SECTION 4

First-aid measures

Inhalation	Move to fresh air. Get medical attention if any discomfort continues.
Skin contact	Rinse skin with water. If skin irritation or rash occurs: get medical advice/attention.
Eye contact	Remove contact lenses if present. Rinse eyes with water. If eye irritation persists: get medical advice/attention.
Ingestion	Rinse mouth; do not induce vomiting. Seek medical attention.
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 (NOx) Combustible. Development of hazardous combustion gases or vapours possible in the event of fire
Advice for firefighters	Cool exposed containers with water spray. Avoid environmental contamination. Use proper protective equipment.

SECTION 6

Accidental release measures

Personal precautions & PPE	Isolate fire risk; avoid dust formation. Use self-contained breathing apparatus and chemically 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 for disposal. Ventilate area thoroughly.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid dust; provide local exhaust/ventilation. Wash hands before breaks/leaving work.
Conditions for safe storage (incompatibilities)	Original container, away from heat, direct sunlight, strong oxidizers, strong acids/bases, ignition sources. Store closed and dry. Storage class: 11

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	Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.
Respiratory protection	Not required 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	Acid 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	*No data available*
Boiling point	*No data available*
Solubility (water)	*No data available*
pH	*No data available*
Vapour pressure	*No data available*
Partition coefficient (log Pow)	*No data available*
Auto-ignition / decomposition temp	*No data available*

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under normal conditions
Conditions to avoid	Heat, sparks, flames, strong oxidizers, strong acids/bases, direct sunlight
Incompatible materials	Strong oxidizers, strong bases, strong acids, ignition sources
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LD50 Oral - Rat - female - 5,000 mg/kg Ref: ECHA
Skin corrosion / irritation	Not classified
Eye corrosion / irritation	Not classified
Respiratory / skin sensitisation	*No data available*
Carcinogenicity	*No data available*
Mutagenicity	*Not applicable*
Reproductive toxicity	*Not applicable*
STOT (single / repeated exposure)	*No data available*
Aspiration hazard	*No data available*
Endocrine disruptors	*No data available*

SECTION 12

Ecological information

Aquatic toxicity	*Not applicable*
Persistence & degradability	*Not applicable*
Bioaccumulative potential	*Not applicable*
Mobility in soil	*Not applicable*
PBT / vPvB assessment	*Not applicable*

SECTION 13

Disposal considerations

Waste treatment / disposal methods	*Not applicable*

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	Handle in accordance with good industrial hygiene and safety practice

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

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as “No data available” carry no recorded value; fields shown as “Not applicable” were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.