

Safety Data Sheet

#90028754 · 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
Nocodazole	31430-18-9	C14H11N3O3S	10	14 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name Nocodazole**CAS number** 31430-18-9**EC / EINECS number** 250-626-5**Chemical formula** C14H11N3O3S**Molecular weight** 301.32**SMILES** COC(=O)NC1=NC2=C(N1)C=C(C=C2)C(=O)C3=CC=CS3

1.2 Relevant identified uses of the substance or mixture and uses advised against

For research purposes only. Not suitable for human consumption or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited

1 Millennium Way, Newton Aycliffe

Durham, DL5 6JW, United Kingdom

info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Muta. 2; H341

Repr. 2; H361d

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
------	------------------

H341	Suspected of causing genetic defects
------	--------------------------------------

H361d	Suspected of damaging fertility. Suspected of damaging the unborn child.
-------	--

CODE	PRECAUTIONARY STATEMENT
------	-------------------------

P263	Avoid contact during pregnancy/while nursing
------	--

P280	Wear protective gloves/protective clothing/eye protection/face protection
------	---

P405	Store locked up
------	-----------------

P501	Dispose of contents/container to an approved waste disposal plant
------	---

2.3 Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Nocodazole
------	------------

CAS number	31430-18-9
------------	------------

EC number	250-626-5
-----------	-----------

Concentration / purity	c. 100% Nocodazole (CAS: 31430-18-9)- H341, H361d
------------------------	---

Classification according to Regulation (EC) No 1272/2008	Muta. 2; H341 Repr. 2; H361d
--	---------------------------------

Hazard statements	H341, H361d
-------------------	-------------

Acute toxicity estimate (ATE)	No data available
-------------------------------	-------------------

Impurities / stabilising additives	None
------------------------------------	------

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest. Loosen tight clothing. Get medical attention if symptoms persist.
Skin contact	Rinse with water.
Eye contact	Remove contact lenses, open eyelids, rinse with water. Get medical attention if discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Get medical advice if unwell. Do not induce vomiting unless directed by medical personnel.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms include temporary irritation (inhalation), discomfort (ingestion), skin dryness (prolonged contact), and slight eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder, or water fog.
Unsuitable extinguishing media	Water jet (spreads fire)

5.2 Special hazards arising from the substance or mixture

Thermal decomposition may produce harmful gases (CO, CO₂, nitrogen oxides, sulfur oxides).

5.3 Advice for firefighters

Wear SCBA and protective clothing. Evacuate area, ventilate closed spaces, cool containers with water, and control run-off water.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Avoid touching spilled material; no action without training.

6.2 Environmental precautions

Avoid discharge into drains, watercourses, or ground. Prevent aquatic environment contamination.

6.3 Methods and material for containment and cleaning up

Collect spillage with tools, dispose safely in sealed containers. Flush contaminated area with water. Wash thoroughly after cleanup.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Read manufacturer's recommendations. Wear protective clothing as described in Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature -15 to -20 °C

Conditions for safe storage (incompatibilities) Store locked up. Conditions not specified beyond general precautions.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

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

DNEC/PNEC data *Not applicable*

8.2 Exposure controls

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 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.

Other protection *No data available*

Environmental exposure controls *No data available*

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Crystalline solid DERIVED FROM: LITERATURE
Colour	White to beige DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	300 °C - Decomposes on heating. DERIVED FROM: LITERATURE
Boiling point	Not applicable
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
pH	Not applicable
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	No data available
Solubility	Not applicable
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density (g/mL)	1.49 g/mL DERIVED FROM: LITERATURE
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Harmful gases or vapours, carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen, oxides of sulphur.

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50)	Oral: No data available
	Inhalation: No data available
	Dermal: No data available
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	Not classified
Mutagenicity	Suspected mutagen
Reproductive toxicity	Suspected of damaging fertility and the unborn child.
STOT (single / repeated exposure)	Avoid contact during pregnancy or breastfeeding. May damage fertility.
Aspiration hazard	<i>No data available</i>

11.2 Information on other hazards

No data available

SECTION 12

Ecological information

12.1 Toxicity

Not applicable

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose via licensed waste contractor. Do not empty into drains. Incineration or landfill only if recycling is not feasible.

SECTION 14

Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special precautions for user *Not applicable*

Transport category *Not applicable*

Tunnel code *Not applicable*

Packing instruction (ADR) *Not applicable*

Packing instruction (IMDG) *Not applicable*

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance-specific regulations (e.g. licences) *No data available*

REACH code Y110

ECHA notification *Not applicable*

15.2 Chemical safety assessment

Not required

SECTION 16

Other information

Revision notes / other information

Last revision date: 24/06/2022 - New revision date 14/09/2026

Hazard classification and labelling according to Regulation (EC) 1272/2008

All eye/face protection should comply with EN ISO 16321-1:2022

Respiratory equipment: Reusable air-purifying respirator (APR)

Filter Type: ABEK

Standard: EN 14387

National Regulations:

-Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances

Other regulations, limitations and legal regulations:

-Directive 94/33/EC- The protection of young people at work.

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.