

Safety Data Sheet

#89997051 · 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
N-Vinylphthalimide	3485-84-5	C10H7NO2	10	20 Oct 2026

SECTION 1

Identification

1.1 Product identifier

Product name N-Vinylphthalimide

CAS number 3485-84-5

EC / EINECS number 222-473-4

Chemical formula C10H7NO2

Molecular weight 173.17

SMILES C=CN1C(=O)C2=CC=CC=C2C1=O

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

For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human 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

Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT SE 3, H335 (Respiratory tract irritation)

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

2.3 Other hazards

Additional precautionary phrases are located throughout the safety data sheet.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	N-Vinylphthalimide
CAS number	3485-84-5
EC number	222-473-4
Concentration / purity	~100%
Classification according to Regulation (EC) No 1272/2008	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 (Respiratory tract irritation)
Hazard statements	H315, H319, H335
Acute toxicity estimate (ATE)	No data available
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest; give oxygen or artificial respiration if necessary; get medical advice if respiratory symptoms occur.
Skin contact	Remove contaminated clothing immediately (unless stuck to skin) and wash with plenty of water; get medical advice if irritation occurs.
Eye contact	Rinse immediately with plenty of water, remove contact lenses if easy, continue rinsing; get medical attention if pain, blinking or redness persists.
Ingestion	Rinse mouth; do NOT induce vomiting; get medical advice/attention.

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

Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, carbon dioxide, water spray, sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in fire: carbon oxides (CO, CO₂) and nitrogen oxides.

5.3 Advice for firefighters

Wear proper protective equipment including respiratory protection; cool exposed containers with water spray; prevent firefighting water from entering the environment.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate ignition sources, avoid dust formation and contact with skin/eyes, evacuate unnecessary personnel; responders use self-contained breathing apparatus and chemical protective clothing.

6.2 Environmental precautions

Prevent entry to sewers and public waters; notify authorities if it enters them.

6.3 Methods and material for containment and cleaning up

Sweep or shovel into suitable containers, minimising dust generation; store away from other materials.

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

Provide local exhaust or general ventilation; avoid creating or spreading dust; wash hands after handling; do not eat, drink or smoke when using.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
Conditions for safe storage (incompatibilities)	Store in original closed container in a cool, dry, well-ventilated place away from direct sunlight, heat and ignition sources; incompatible with strong oxidisers.

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	Chemical splash goggles 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	Do not eat, drink or smoke during use; emergency safety showers should be available.
Environmental exposure controls	Avoid release to the environment.

SECTION 9

Physical & chemical properties**9.1 Information on basic physical and chemical properties**

Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	Off-white DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	84 - 87 °C (lit.) DERIVED FROM: LITERATURE
Boiling point	No data available
Flammability	Not applicable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	Not applicable
Acidity	Not applicable
Kinematic viscosity	Not applicable
Solubility	Insoluble in water DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Relative vapour density	Not applicable
Particle characteristics	Not applicable

9.2 Other information

No data available

SECTION 10

Stability & reactivity**10.1 Reactivity**

Non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Heat, hot surfaces, sparks, open flames and other ignition sources; sunlight.

10.5 Incompatible materials

Strong oxidizers

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

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

Acute toxicity (LD50 / LC50) *Not applicable*

Skin corrosion / irritation *Not applicable*

Eye corrosion / irritation *Not applicable*

Respiratory / skin sensitisation *Not applicable*

Carcinogenicity *Not applicable*

Mutagenicity *Not applicable*

Reproductive toxicity *Not applicable*

STOT (single / repeated exposure) *Not applicable*

Aspiration hazard *Not applicable*

11.2 Information on other hazards

This product does not contain any known or suspected endocrine disruptors.

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 of in accordance with local/national regulations

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 REACH Annex XVII restrictions; not on REACH Candidate List or Annex XIV List.
REACH code	Y110
ECHA notification	<i>Not applicable</i>

15.2 Chemical safety assessment

Not required

SECTION 16

Other information

Revision notes / other information	Old Molekula SDS Version number: 3 Issued: Revision date: 5/24/2019
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