

# Safety Data Sheet

#48731952 · 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 |
|-------------|------------|---------|---------|---------------|
| Succinimide | 123-56-8   | C4H5NO2 | 10      | 04 Sep 2026   |

## SECTION 1

### Identification

#### 1.1 Product identifier

**Product name** Succinimide**CAS number** 123-56-8**EC / EINECS number** *Not applicable***Chemical formula** C4H5NO2**Molecular weight** 99.09**SMILES** O=C1NC(=O)CC1

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

*Not applicable*

#### 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

## 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

*Not applicable*

## SECTION 3

### Composition / information on ingredients

#### 3.1 Substances

|      |             |
|------|-------------|
| Name | Succinimide |
|------|-------------|

|            |          |
|------------|----------|
| CAS number | 123-56-8 |
|------------|----------|

|           |           |
|-----------|-----------|
| EC number | 204-635-6 |
|-----------|-----------|

|                        |                       |
|------------------------|-----------------------|
| Concentration / purity | <i>Not applicable</i> |
|------------------------|-----------------------|

|                                                          |                                                              |
|----------------------------------------------------------|--------------------------------------------------------------|
| Classification according to Regulation (EC) No 1272/2008 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 |
|----------------------------------------------------------|--------------------------------------------------------------|

|                   |                  |
|-------------------|------------------|
| Hazard statements | H315, H319, H335 |
|-------------------|------------------|

|                               |                          |
|-------------------------------|--------------------------|
| Acute toxicity estimate (ATE) | <i>No data available</i> |
|-------------------------------|--------------------------|

|                                    |                       |
|------------------------------------|-----------------------|
| Impurities / stabilising additives | <i>Not applicable</i> |
|------------------------------------|-----------------------|

## SECTION 4

### First-aid measures

#### 4.1 Description of first aid measures

|              |                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Move to fresh air, keep warm, maintain open airway, loosen tight clothing; administer oxygen if breathing is difficult; seek medical attention; place unconscious person in recovery position |
| Skin contact | Rinse with water                                                                                                                                                                              |
| Eye contact  | Rinse with water; do not rub; remove contact lenses if present; seek medical attention if discomfort continues                                                                                |
| Ingestion    | Rinse mouth with water; give small glasses of water or milk; do not induce vomiting; place unconscious person in recovery position; seek medical attention if symptoms persist                |

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

Irritation of nose, throat, airway, coughing (inhalation); skin redness (skin contact); eye irritation (eye contact); irritation (ingestion)

#### 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                                                        |

#### 5.2 Special hazards arising from the substance or mixture

Harmful gases or vapours, oxides of carbon, oxides of nitrogen on thermal decomposition

#### 5.3 Advice for firefighters

Avoid breathing fire gases; evacuate area; use SCBA and protective clothing; ventilate closed spaces; cool containers with water; 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; use respiratory protection if ventilation is inadequate

#### 6.2 Environmental precautions

Avoid discharge into drains, watercourses, or ground

### 6.3 Methods and material for containment and cleaning up

Collect with shovel/broom; dispose of waste safely; 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

Wear protective clothing; keep away from food, drink, and animal feeding stuffs; keep container tightly sealed

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage temperature** Ambient

**Conditions for safe storage (incompatibilities)** Store in original container; keep tightly closed in a cool, well-ventilated place; protect from damage; keep upright; avoid incompatible materials

#### 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** Half-mask with filter  
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                       | Solid<br>DERIVED FROM: LITERATURE                              |
| Colour                                            | Beige<br>DERIVED FROM: LITERATURE                              |
| Odour                                             | Not known<br>DERIVED FROM: LITERATURE                          |
| Melting / freezing point                          | 121-126°C (250-259°F)<br>DERIVED FROM: LITERATURE              |
| Boiling point                                     | 285-290°C (545-554°F) at 101592 Pa<br>DERIVED FROM: LITERATURE |
| 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                                                | 4-6<br>DERIVED FROM: LITERATURE                                |
| Acidity                                           | Neutral<br>DERIVED FROM: LITERATURE                            |
| Kinematic viscosity                               | No data available                                              |
| Solubility                                        | 240 g/L (20°C)<br>DERIVED FROM: LITERATURE                     |
| Partition coefficient n-octanol/water (log value) | Not applicable                                                 |
| Vapour pressure                                   | Not applicable                                                 |
| Density (g/mL)                                    | 1.41 g/mL<br>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

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.

## 10.3 Possibility of hazardous reactions

*No data available*

## 10.4 Conditions to avoid

Dust formation

## 10.5 Incompatible materials

Acids, bases, strong oxidizing agents, strong reducing agents

## 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)** LD50 Oral - Rat - 14,000 mg/kg

**Skin corrosion / irritation** Skin irritation (H315)

**Eye corrosion / irritation** Serious eye irritation (H319)

**Respiratory / skin sensitisation** *Not applicable*

**Carcinogenicity** *Not applicable*

**Mutagenicity** *Not applicable*

**Reproductive toxicity** *Not applicable*

**STOT (single / repeated exposure)** May cause respiratory irritation (H335)

**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

Toxicity to algae static test NOEC - Pseudokirchneriella subcapitata -  $\geq$  962 mg/l - 72 h

#### 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 4 d Result: 99 % - Inherently biodegradable.

### 12.3 Bioaccumulative potential

*Not applicable*

### 12.4 Mobility in soil

Highly mobile in soils and water systems

### 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 contents/container in accordance with 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 data available

REACH code Y110

ECHA notification Not applicable

### 15.2 Chemical safety assessment

Not required

### SECTION 16

## Other information

Revision notes / other information This SDS replaces version 2: 22.08.2022

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](mailto:info@molekula.com).