

Safety Data Sheet

#17649808 · 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
Dimedone	126-81-8	(CH₃)₂C₆H₆(=O)₂	10	07 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name Dimedone**CAS number** 126-81-8**EC / EINECS number** *Not applicable***Chemical formula** (CH₃)₂C₆H₆(=O)₂**Molecular weight** 140.18**SMILES** O=C1CC(=O)CC(C)(C)C1

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

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
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H315	Causes skin irritation
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H319	Causes serious eye irritation
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H335	May cause respiratory irritation
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CODE	PRECAUTIONARY STATEMENT
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P261	Avoid breathing dust/fume/gas/mist/vapours/spray
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P264	Wash thoroughly after handling
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P271	Use only outdoors or in a well-ventilated area
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P280	Wear protective gloves/protective clothing/eye protection/face protection
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P302+P352	IF ON SKIN: Wash with soap and water
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P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
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P321	Specific treatment (see supplemental first aid instructions on this label)
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P403+P233	Store in a well-ventilated place. Keep container tightly closed
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P405	Store locked up
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P501	Dispose of contents/container to an approved waste disposal plant
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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	Dimedone
CAS number	126-81-8
EC number	204-804-4
Concentration / purity	~100%
Classification according to Regulation (EC) No 1272/2008	Skin Irrit. 2; H315 Eye Irrit. 2; H319 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 affected person to fresh air and keep warm and at rest. Loosen tight clothing. Get medical attention if discomfort continues.
Skin contact	Rinse with water. Get medical attention if discomfort continues.
Eye contact	Remove contact lenses, open eyelids, rinse with water. Get medical attention if discomfort continues.
Ingestion	Rinse mouth. Get medical attention if discomfort continues.

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

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

Harmful gases (CO₂, CO) on thermal decomposition.

5.3 Advice for firefighters

Avoid breathing fire gases. Cool containers with water spray. Use SCBA and protective clothing.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment as per Section 8.

6.2 Environmental precautions

Avoid discharge into drains, watercourses, or ground.

6.3 Methods and material for containment and cleaning up

Collect spillage with shovel/broom, reuse/recycle if possible. Dispose of securely. Flush contaminated area with water.

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. Keep container tightly sealed.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient

Conditions for safe storage (incompatibilities) Store away from strong oxidising agents. Light and heat sensitive.

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	<i>No data available</i>
Environmental exposure controls	<i>No data available</i>

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Crystalline solid DERIVED FROM: LITERATURE
Colour	Light yellow DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	147-150°C DERIVED FROM: LITERATURE
Boiling point	164-166°C @ 1013 hPa DERIVED FROM: LITERATURE
Flammability	<i>No data available</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	<i>Not applicable</i>
Auto-ignition temperature	<i>Not applicable</i>
Decomposition temperature	<i>No data available</i>
pH	5-6 (diluted solution, 5g/l, 20°C) DERIVED FROM: LITERATURE
Acidity	Acid DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	Slightly soluble in water DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	1.3 (log Pow) DERIVED FROM: LITERATURE
Vapour pressure	<i>Not applicable</i>

Density (g/mL)	1.01 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 at normal ambient temperatures and recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat and light

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

Harmful gases (CO₂, CO) on thermal decomposition. 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 - > 5,000 mg/kg

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

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 11,500 mg/l - 96 h

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 data available*

REACH code Y110

ECHA notification *Not applicable*

15.2 Chemical safety assessment

Not applicable

SECTION 16

Other information

Revision notes / other information This SDS replaces v1 issued: 07.06.2022

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.