

Safety Data Sheet

#18573476 · 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
beta-Cyclocitral	432-25-7	C10H16O	10	25 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name beta-Cyclocitral

CAS number 432-25-7

EC / EINECS number 207-081-3

Chemical formula C10H16O

Molecular weight 152.23

SMILES O=CC1=C(C)CCCC1(C)C

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 corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

2.2 Label elements



WARNING

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

H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
-----------------------	--

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
------	---

P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
----------	--

P302+352	IF ON SKIN: Wash with soap and water
----------	--------------------------------------

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

Does not meet PBT or vPvB criteria under REACH Annex XIII.

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

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	beta-Cyclocitral
CAS number	432-25-7
EC number	207-081-3
Concentration / purity	~100.0%
Classification according to Regulation (EC) No 1272/2008	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Hazard statements	H302 + H312 + H332, H315, H319, H335
Acute toxicity estimate (ATE)	Not reported
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing; if breathing is difficult, give oxygen or artificial respiration.
Skin contact	Take off immediately all contaminated clothing and wash immediately with plenty of water.
Eye contact	Rinse immediately with plenty of water, remove contact lenses if present and easy to do, and continue rinsing.
Ingestion	Rinse mouth out with water; do not induce vomiting.

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

Inhalation may cause irritation, cough, headache; skin contact may cause moderate irritation; eye contact causes serious irritation; ingestion may cause digestive tract irritation, nausea.

4.3 Indication of any immediate medical attention and special treatment needed

Get immediate medical advice/attention.

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

Combustible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Vapours are heavier than air and may spread along floors or in the bottom of containers.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers; wear proper protective equipment including respiratory protection.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear recommended personal protective equipment; evacuate unnecessary personnel; avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

Soak up spills with inert solids such as clay or diatomaceous earth; contain spilled material by bunding.

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

Work under hood. Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	2 to 8 °C
---------------------	-----------

Conditions for safe storage (incompatibilities)	Store under inert gas.
---	------------------------

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 reported
--	--------------

DNEC/PNEC data	Not reported
----------------	--------------

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	Chemically resistant protective clothing (EN 14605) with elasticated cuffs and closed neck; butyl rubber gloves (EN 374).
Respiratory protection	Dust mask (FFP2/FFP3) 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	Emergency eye wash fountains and safety showers should be available.
Environmental exposure controls	No special controls

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Liquid DERIVED FROM: LITERATURE
Colour	Colourless to pale yellow. DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	No data available
Boiling point	62 - 63 °C at 4 hPa DERIVED FROM: LITERATURE
Flammability	Non flammable. DERIVED FROM: LITERATURE
Lower and upper explosion limit	No data available
Flash point	113 °C DERIVED FROM: LITERATURE
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	No data available
Solubility	Chloroform (Slightly), Dichloromethane, Ethyl Acetate, Methanol DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	No data available

Vapour pressure	No data available
-----------------	-------------------

Density (g/mL)	0.955 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

Non-reactive under normal conditions of use, storage and transport.
Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Protect from sunlight; keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

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)	Acute Toxicity Estimate (ATE): Oral- 500.1mg/kg Acute Toxicity Estimate (ATE): Inhalation- 4 hours- 11.1mg/l vapour Acute Toxicity Estimate (ATE): Dermal- 1,100.1 mg/kg
------------------------------	--

Skin corrosion / irritation	Causes skin irritation.
-----------------------------	-------------------------

Eye corrosion / irritation	Causes serious eye irritation.
----------------------------	--------------------------------

Respiratory / skin sensitisation	No data available.
----------------------------------	--------------------

Carcinogenicity	No data available.
-----------------	--------------------

Mutagenicity	No data available.
--------------	--------------------

Reproductive toxicity	No data available.
STOT (single / repeated exposure)	May cause respiratory irritation.
Aspiration hazard	No data available.

11.2 Information on other hazards

Not considered an endocrine disruptor.

SECTION 12

Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Does not meet PBT or vPvB criteria.

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 in a safe manner 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

None

14.6 Special precautions for user

Special precautions for user None

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

No

SECTION 16

Other information

Revision notes / other information This version (v10) was created on 25.09.2026 and replaces v1 (26.04.2019)- Added H302 + H312 +H332.

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.