

Safety data for dicyclohexylamine

[Glossary](#) of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: dodecahydrophenylamine, n-cyclohexanamine, DCHA, perhydrodiphenylamine

Uses: Varied, including insecticide, plasticizer, corrosion inhibitor, antioxidant.

Molecular formula: $C_{12}H_{23}N$

CAS No: 101-83-7

EC No:

Physical data

Appearance: colourless or light yellow liquid

Melting point: -1 C

Boiling point: 256 C

Vapour density: 6.3 (air = 1)

Vapour pressure:

Density ($g\ cm^{-3}$): 0.91

Flash point: 99 C (closed cup)

Explosion limits:

Autoignition temperature:

Water solubility: slight

Stability

Stable. Incompatible with strong acids, strong oxidizing agents.

Toxicology

Corrosive. Causes burns. Harmful if swallowed. Severe eye and skin irritant. Chronic exposure may cause CNS depression. Skin sensitizer.

Toxicity data

(The meaning of any abbreviations which appear in this section is given [here.](#))

ORL-RAT LD50 373 mg kg⁻¹

SCU-MUS LD50 135 mg kg⁻¹

SCU-RBT TDLO 500 mg kg⁻¹

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here.](#))

R22 R34 R36 R38.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here.](#))

UN No 2565. Packing group III. Hazard class 8.

Personal protection

Safety glasses, adequate ventilation.

Safety phrases

(The meaning of any safety phrases which appear in this section is given [here.](#))

[Return to [Physical & Theoretical Chemistry Lab. Safety home page.](#)]

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SPECIFICATION

Dicyclohexylamine

Product: Dicyclohexylamine

CAS: 101-83-7

Synonym: DCHA; DI-CHA

Formula: $(C_6H_{11})_2NH$

Class: Dicyclohexylamine

Product Type: Organic

Hazard: 8 corrosive

Specification

Assay : 99.0% Min.

Water Content : 0.2% Max

Color, APHA : 50 Max.

Content : 0.2% Max. (Aniline)