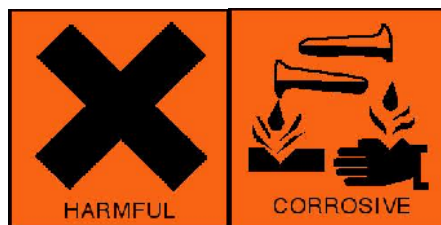


Safety data for 1,6-hexanediamine



[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: hexamethylenediamine

Molecular formula: $\text{NH}_2(\text{CH}_2)_6\text{NH}_2$

CAS No: 124-09-4

EINECS No:

Physical data

Appearance: white to yellowish crystals or powder with an amine odour

Melting point: 39 C

Boiling point: 205 C

Vapour density:

Vapour pressure: 1.1 mm Hg at 20 C

Density (g cm^{-3}): 0.84

Flash point: 93 C (closed cup)

Explosion limits: 0.7 - 6.3 %

Autoignition temperature:

Water solubility: appreciable

Stability

Stable. Combustible. Incompatible with strong oxidizing agents, strong acids, organic materials.

Toxicology

Corrosive - causes burns. Harmful if ingested or inhaled. May cause burns in contact with skin or eyes. Eye, skin and respiratory irritant.

Toxicity data

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

ORL-RAT LD50 750 mg kg⁻¹

Risk phrases

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

R20 R22 R34 R36 R37 R38.

Transport information

Personal protection

Safety glasses, adequate ventilation.

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

This information was last updated on April 25, 2005. We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.

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Specification

| Item | Specification |
|------------------------|------------------------------------|
| Appearance | clear pale yellow to yellow liquid |
| Active Content As Acid | 21~24% |
| Active Content as salt | 31~34% |
| Chlorides (as Cl) | 5.0% max |
| pH Value (1% aqueous) | 6~8 |
| Color, APHA | 80 max |

Standard Packing

250kgs net/200L poly drums;1250kgs net/IBC; ISO tank