



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

1,6-Diaminohexane

Section 1: Identification of the substance/ mixture and of the company/ undertaking.

1.1 Product identifier

Product name	1,6-Diaminohexane
Other names	(Hexamethylenediamine)
CAS No.	124-09-4
Index No.	612-104-00-9
EC No.	204-679-6
Product code	8001150

1.2 Relevant identified uses of the substances or mixture and uses advised against

Product use	Laboratory chemicals, manufacture of substances, Scientific R&D
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1.3 Details of the supplier of the safety data sheet


Company	Breckland Scientific Supplies Ltd	
Address	Antom Court, Tollgate Drive, Stafford, ST16 3AF	
Web	www.brecklandscientific.co.uk	
Telephone	01785 227 227	
Fax	01785 227 444	
Email	msds@brecklandscientific.co.uk	
Emergency telephone	08:30-17:00 24hrs	01785 227227 112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification - 67/548/EEC	C; R35 Skin Corr. 1A Corrosive Xn; R22 Acute Tox. 4 Harmful Xn; R21 Acute Tox. 4 Harmful Xi; R37 STOT SE 3 Irritant
2.1.2 Classification – EC 1272/2008	H314 H302 H312 H335

2.2 Label elements

Hazard Pictograms	
Signal word	Danger
Hazard statement	H314: Causes severe skin burns and eye damage. H302: Harmful if swallowed. H312: Harmful in contact with skin. H335: May cause respiratory irritation.
Precautionary statement	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P309: IF exposed or if you feel unwell: P310: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 3: Composition/information on ingredients

3.1 Substances

67/548/EEC/1999/45/EC

Chemical name	Index No.	CAS No.	EINECS No.	Classification	Conc
1,6-Diaminohexane	612-104-00-9	124-09-4	204-679-6	H314 H302 H312 H335	90-100

EC 1272/2008

Chemical name	Index No.	CAS No.	EINECS No.	Classification	Conc
1,6-Diaminohexane	612-104-00-9	124-09-4	204-679-6	C; R35 Skin Corr. 1A Corrosive Xn; R22 Acute Tox. 4 Harmful Xn; R21 Acute Tox. 4 Harmful Xi; R37 STOT SE 3 Irritant	90-100

Section 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Move the exposed person to fresh air. If breathing stops, provide artificial respiration.
Eye contact:	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion:	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention.
General information:	If you feel unwell, seek medical advice (show the label where possible).

Section 5: Firefighting measures

5.1 Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
5.2 Special hazards arising from substances or mixture	No data available
5.3 Advice for firefighters	Wear suitable respiratory equipment when necessary

Section 6: Accidental release measures

6.1 Personal precaution, protective equipment and emergency procedures	Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.
6.2 Environmental precautions	Prevent further spillage if safe. Do not allow product to enter drains
6.3 Methods and materials for containments and cleaning up	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area.
7.2 Conditions for safe storage including any incompatibilities.	Store in a cool, dry area. Keep container tightly closed.

Section 8: Exposure controls/ personal protection

8.1 Control parameters

8.1.1 Exposure limit values

1,6-Diaminohexane CAS No: 124-09-4	Long Term (8hr TWA)	Short term (15min period STEL)
ppm	N/A	N/A
Mg/m ³	N/A	N/A

8.2 Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area.
Eye/ face protection	Approved safety glasses. Face shield where appropriate.
Skin/ hand protection	Wear suitable protective clothing and gloves.
Respiratory protection	Where risk assessment shows it is necessary, use a dust mask type or breathing apparatus.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Solid
Colour:	Colourless
Melting point °C:	42-45
Boiling point °C:	204-205
Relative density g/cm ³ :	0.89
Chemical formula:	NH ₂ (CH ₂) ₆ NH ₂
Molecular weight g/mol:	116.21

Section 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

Section 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity	No data available
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Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available

11.4 Toxicological information

1,6-Diaminohexane	Oral Rat LD50 mg/kg: 750
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Section 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic vertebrates

1,6-Diaminohexane	EC50 Daphnia magna: 23.4 (Water flea) mg/l - 48hr
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Section 13: Disposal considerations

General information	Dispose of in compliance with all local and national regulations.
Disposal methods	Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point

Section 14: Transport information

ARD/RID

14.1. UN Number:

ADR/RID: 2280

IMDG: 2280

IATA: 2280

14.2 UN Proper shipping name: 1,6-Diaminohexane

14.3. Transport hazard class(es): 8

14.4. Packing group: III

14.5 Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

Regulations	Labelling according to Regulation (EC) No 1272/2008.
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Section 16: Other information

16.1: Other information

Text of risk phrases in Section 3

C; R35 Skin Corr. 1A Corrosive	Causes severe skin burns and eye damage.
Xn; R22 Acute Tox. 4 Harmful	Harmful if swallowed.
Xn; R21 Acute Tox. 4 Harmful	Harmful in contact with skin.
Xi; R37 STOT SE 3 Irritant	May cause respiratory irritation.

Text of hazard statements in Section 3

H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H335	May cause respiratory irritation.

16.2 Further information

Further information	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. Breckland Scientific Supplies Limited will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.</p>
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