



## SAFETY DATA SHEET

1,6 DIAMINOHEXANE

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Compilation date: 29/04/2015

Revision No: 1

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

#### 1.1. Product identifier

**Product name:** 1,6 DIAMINOHEXANE

**CAS number:** 124-09-4

**EINECS number:** 204-679-6

**Product code:** GPC6392

**Synonyms:** HEXAMETHYLENEDIAMINE

1,6 HEXANEDIAMINE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** Manufacture of substances. Laboratory chemicals.

#### 1.3. Details of the supplier of the safety data sheet

Select School Supplies  
The Old Granary  
Berghill House  
Oswestry  
SY11 4PD  
01691 770366  
sales@selectschoolsSupplies.co.uk

#### 1.4. Emergency telephone number

**Emergency tel:** 01691 770366

(office hours only)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Acute Tox. 4: H302+312; Skin Corr. 1B: H314; STOT RE 2: H373; STOT SE 3: H335

**Classification under CHIP:** Xn: R21/22; C: R34; Xi: R37

**Most important adverse effects:** Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause respiratory irritation.

#### 2.2. Label elements

**Label elements under CLP:**

**Hazard statements:** H302+312: Harmful if swallowed or in contact with skin.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

[cont...]

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**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion

GHS07: Exclamation mark



**Precautionary statements:** P261: Avoid breathing dust.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.1. Substances

**Chemical identity:** 1,6 DIAMINOHEXANE

**CAS number:** 124-09-4

**EINECS number:** 204-679-6

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:** No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water spray. Alcohol resistant foam. Carbon dioxide. Dry chemical powder.

[cont...]

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## 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of hydrogen iodide.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Do not create dust. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Sweep up and shovel.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid the formation or spread of mists in the air. Avoid the formation or spread of dust in the air. Ensure there is exhaust ventilation of the area. Keep away from sources of ignition - No smoking. keep away from heat. Normal measures for preventive fire protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Light sensitive  
Hygroscopic

### 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### 8.1. DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Contains no substances with occupational exposure limit values.

[cont...]

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**Respiratory protection:** Respiratory protective device with particle filter. Particle filter class P3S (EN143). Particle filter class P3SL (EN143).

**Hand protection:** Nitrile gloves. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Safety glasses.

**Skin protection:** Complete suit protecting against chemicals.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Powder

**Colour:** Colourless

**Boiling point/range °C:** 204-205

**Melting point/range °C:** 42-45

**Flammability limits %: lower:** 0.7

**upper:** 6.3

**Flash point °C:** 80

**Vapour pressure:** 0.02 log Pow

**Relative density:** 0.89 g/cm<sup>3</sup>

**pH:** 12.4

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** No data available.

### 10.2. Chemical stability

**Chemical stability:** Hygroscopic Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No data available.

### 10.4. Conditions to avoid

**Conditions to avoid:** hygroscopic

### 10.5. Incompatible materials

**Materials to avoid:** Strong reducing agents. Strong bases. Finely powdered metals. Dimethyl Sulfoxide (DMSO)

### 10.6. Hazardous decomposition products

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

[cont...]

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## Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-repeated exposure	-	Based on test data

## Symptoms / routes of exposure

**Skin contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:** No data available.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	62	mg/l
DAPHNIA	48H EC50	23.4	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

### 12.4. Mobility in soil

**Mobility:** No data available.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Dispose of as unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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## Section 14: Transport information

### 14.1. UN number

UN number: UN2280

### 14.2. UN proper shipping name

Shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S. Orthoperiodic acid

### 14.3. Transport hazard class(es)

Transport class: 8

### 14.4. Packing group

Packing group: III

### 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

### 14.6. Special precautions for user

## Section 15: Regulatory information

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

**Specific regulations:** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2. Chemical Safety Assessment

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:** H302+312: Harmful if swallowed or in contact with skin.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

R21/22: Harmful in contact with skin and if swallowed.

R34: Causes burns.

R37: Irritating to respiratory system.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.