# WF Education Group - Safety Data Sheet

DI2430

16 April 2021 07 June 2021

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date:
Date printed:

## **Section 1. Identification**

1.1 Product Identifier DI2430

Product Name 1,6-DIAMINOHEXANE pure 25g.

CAS Number 124-09-4

REACH Registration No 01-2119473981-28-XXXX

Molecular Formula

NH2 (CH2) NH2 = 116.21

## 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### **1.3 Supplier** WF Education Group

VICKERS
Working together with
TIMSTAR
Port of Conceded and Group

Phoenix House

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(24hr) 112

(Have this document to hand)

# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

## Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B Acute toxicity, category 4 (oral) Acute toxicity, category 4 (dermal) Spec target organ tox - single, category 3 H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed. H312: Harmful in contact with skin. H335: May cause respiratory irritation.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns Hazard Statements

and eye damage.

Precautionary Statements Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair):

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting.

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
1,6-Diaminohexane	124-09-4	204-679-6	01-2119473981-28-XXXX	98%	Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),STOT SE 3 (I)

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position.

OBTAIN MÉDICAL ATTENTION.

If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. Ingestion

Personal protection for first Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

#### 5.1 Extinguishing media

Extinguishing Media Water spray, alcohol resistant foam, dry powder or carbon dioxide.

Unsuitable Media Nothing specified.

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

Hazards May evolve toxic fumes if involved in a fire.

#### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so.

### 6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

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

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious

amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
1,6-Diaminohexa	ane 124-09-4	98%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

## 8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Colourless/white crystalline solid mass.

Odour Characteristic amine odour.

pH 14 @ 20°C Boiling Point 199°C Melting Point 41°C

Flash Point 85°C (Closed cup)

Upper Flammable Limit 7.6 vol%
Lower Flammable Limit 0.9 vol%
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure
Relative Density
Not applicable
0.84 @ 20°C
Water Solubility
Very soluble in water.

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions. 10.5 Incompatable Materials Strong oxidising agents.

Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide. Hazardous Decomposition

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes The liquid will cause conjunctival irritation and corneal damage. Damage can range from severe irritation and

corneal scarring to permanent blindness. The vapour may be irritating to the eyes.

Skin The liquid will cause burns.

LD50 Skin 1110mg/kg Rabbit

Ingestion Causes severe corrosion of the mouth, throat and gastro-intestinal tract.

LD50 Oral 750mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information The irritant effect provides warning that control of exposure is needed.

## Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard.

LC50 Algal 15mg/l Green algae (72 hours)

LC50 Crustacea 23.4mg/l Daphnia magna (48 hours)

LC50 Fish 62mg/l Fish (96 hours) 12.2 Persistence and

degradability

Product is biodegradable.

12.3 Bioaccumulative potential Not expected to bioaccumulate.

12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

# Section 13. Disposal Considerations

# 13.1 Waste treatment methods

Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems. Disposal Methods

Contaminated Packaging

Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion. Clean out with a weak hydrochloric acid solution then wash out thoroughly with water.

## **Section 14. Transport Information**

**14.1 UN Number** 2280

**14.2 Proper Shipping Name** Hexamethylenediamine, solid

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group III

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

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**14.7 Transport in bulk** Not transported in bulk.



## Section 15. Regulatory Information

## 15.1 Safety, health and environment regulations specific for subtance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Spec

target organ tox - single, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H312, H302, H335, H314

Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns

and eye damage.

Hazard Statements (Packs

of 500ml/g or less)

H312, H302, H335, H314

Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns

and eye damage.

 $Precautionary\ Statements \qquad P280,\ P260,\ P303+P361+P353,\ P304+P340,\ P305+P351+P338,\ P301+P330+P331$ 

Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary Statements (Packs of 500ml/g or less)

P280, P260, P303+P361+P353, P305+P351+P338

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#### 15.2 Chemical safety assessment

Assessment not required.

### Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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