



# Unilong Industry Co., Ltd

Add: No.2000 Shunhua Rd, High-Tech Zone , Jinan City, Shandong Province, China

## Chemical Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Product name : 1,2-Diaminopropane :  
Product code D0113

#### Manufacturer or supplier's details

Company name: Unilong Industry Co.,Ltd.  
Address: No.2000 Shunhua Rd, High-Tech Zone, Jinan City, Shandong Province, China  
Tel: +86 0531 55690071

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview


<b>Appearance</b>	: liquid
<b>Color</b>	: colorless - yellow

Flammable liquid and vapor. May be harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Harmful to aquatic life.

#### GHS Classification

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 5  
Acute toxicity (Dermal) : Category 3  
Skin corrosion/irritation : Category 1A  
Serious eye damage/eye irritation : Category 1  
Short-term (acute) aquatic hazard : Category 3

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.  
H303 May be harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.

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P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P312 Call a POISON CENTER/ doctor if you feel unwell.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Physical and chemical hazards**

Flammable liquid and vapor.

**Health hazards**

May be harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage.

**Environmental hazards**

Harmful to aquatic life.

**Other hazards which do not result in classification**

None known.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Components**

Chemical name	CAS RN	Concentration (% w/w)
1,2-Diaminopropane	78-90-0	98

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**4. FIRST AID MEASURES**

If inhaled : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

In case of skin contact : Take off all contaminated clothing immediately.  
If on skin, rinse well with water.  
If skin irritation or rash occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.  
If easy to do, remove contact lens, if worn.  
Immediately call a POISON CENTER or doctor/ physician.

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If swallowed	:	Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	:	None known.

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## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Dry powder, Foam, Water spray, Carbon dioxide (CO2)
Specific hazards during fire fighting	:	No information available.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.
Special protective equipment for fire-fighters	:	Use personal protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions	:	Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Collect as much of the spill as possible with a suitable absorbent material.

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## 7. HANDLING AND STORAGE

### Handling

Technical measures	:	Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.
Local/Total ventilation	:	Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.
Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling.
Avoidance of contact	:	Oxidizing agents

### Storage

Conditions for safe storage	:	Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place.
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Use explosion-proof equipment.  
Protect from moisture.  
Keep under inert gas.  
Store locked up.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Install a closed system or local exhaust.  
Also install safety shower and eye bath.

### Personal protective equipment

Respiratory protection : Gas mask  
Self-contained breathing apparatus

Eye/face protection : Safety glasses  
Safety goggles  
Face-shield

Skin and body protection : Impervious protective clothing

Hand protection : Impervious gloves

\*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless - yellow

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 120 °C

Flash point : 33 °C

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : 11.1 %(V)

Lower explosion limit / Lower flammability limit : 1.9 %(V)

Vapor pressure : 1.9 kPa (20 °C)

Relative vapor density : 2.6

Relative density : 0.87

Solubility(ies)  
Water solubility : soluble

Solubility in other solvents	:	soluble Solvent: Ether
		soluble Solvent: Alcohol
		soluble Solvent: Chloroform
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	360 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Molecular weight	:	74.13 g/mol

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## 10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Electrical spark Open flame Electrostatic discharge Exposure to air. Exposure to moisture.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> )

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### **Product:**

Acute oral toxicity	:	Assessment: The component/mixture is minimally toxic after single ingestion.
Acute dermal toxicity	:	Assessment: The component/mixture is toxic after single contact with skin.

#### **Components:**

##### **1,2-Diaminopropane:**

Acute oral toxicity	:	LD50 (Rat): 2,230 mg/kg Assessment: The component/mixture is minimally toxic after single ingestion.
Acute dermal toxicity	:	LD50 (Rabbit): 435 mg/kg

Assessment: The component/mixture is toxic after single contact with skin.

#### **Skin corrosion/irritation**

##### **Product:**

Result : Causes severe burns.

##### **Components:**

##### **1,2-Diaminopropane:**

Result : Causes severe burns.

#### **Serious eye damage/eye irritation**

##### **Product:**

Result : Irreversible effects on the eye

##### **Components:**

##### **1,2-Diaminopropane:**

Result : Irreversible effects on the eye

**Respiratory or skin sensitization** : No information available.

**Germ cell mutagenicity** : No information available.

**Carcinogenicity** : No information available.

**Reproductive toxicity** : No information available.

**STOT-single exposure** : No information available.

**STOT-repeated exposure** : No information available.

**Repeated dose toxicity** : No information available.

**Aspiration toxicity** : No information available.

**RTECS No.** : TX6650000 (1,2-Diaminopropane)

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## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

##### **Product:**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

##### **Components:**

##### **1,2-Diaminopropane:**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

#### **Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

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**14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No. : UN 2258  
Proper shipping name : 1,2-Propylenediamine  
Class : 8  
Subsidiary risk : 3  
Packing group : II

**IMDG-Code**

UN number :  
Proper shipping name : UN 2258  
Class : 1,2-PROPYLENEDIAMINE  
Subsidiary risk : 8  
Packing group : 3  
EmS Code : II  
Domestic regulation : F-E, S-C

**GB 6944/12268**

UN number :  
Proper shipping name : UN 2258  
Class : 1,2-PROPYLENEDIAMINE  
Subsidiary risk : 8  
Packing group : 3  
Packing group : II

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**15. REGULATORY INFORMATION****Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals : Listed

**The ingredients of this product are reported in the following inventories:**

CH BAGREG : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AICS : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory

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## 16. OTHER INFORMATION

NONE.