

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## SAFETY DATA SHEET

Version: v1

Revision Date: 2024-10-15

Print Date: 2024-10-15

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

## 1.1 Product identifiers

Product name : Pyrrole  
Product Number : P104879  
Brand : aladdin  
CAS-No. : 109-97-7

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

Identified uses : Laboratory chemicals, Manufacture of substances.

## 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

## 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 4), H332

Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

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|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Hazard statement(s)        |                                                                                                                                  |
| H226                       | Flammable liquid and vapor                                                                                                       |
| H301                       | Toxic if swallowed                                                                                                               |
| H318                       | Causes serious eye damage                                                                                                        |
| H332                       | Harmful if inhaled                                                                                                               |
| Precautionary statement(s) |                                                                                                                                  |
| P210                       | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                  |
| P233                       | Keep container tightly closed.                                                                                                   |
| P240                       | Ground/bond container and receiving equipment.                                                                                   |
| P241                       | Use explosion-proof [electrical/ventilating/lighting/...] equipment.                                                             |
| P242                       | Use only non-sparking tools.                                                                                                     |
| P243                       | Take precautionary measures against static discharge.                                                                            |
| P261                       | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P264                       | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P270                       | Do not eat, drink or smoke when using this product.                                                                              |
| P271                       | Use only outdoors or in a well-ventilated area.                                                                                  |
| P280                       | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P310                       | Immediately call a POISON CENTER or doctor/physician.                                                                            |
| P303+P361+P353             | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].                         |
| P305+P351+P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P370+P378                  | In case of fire: Use ... to extinguish.                                                                                          |
| P405                       | Store locked up.                                                                                                                 |
| P410                       | Protect from sunlight.                                                                                                           |
| P403+P235                  | Store in a well-ventilated place. Keep cool.                                                                                     |
| P501                       | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P304+P340+P312             | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. if you feel unwell.   |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                              |
|------------------|----------------------------------------------|
| Synonyms         | : Divinylenimi; Azole; Imidole; 1H-Pyrrolene |
| Formula          | : C4H5N                                      |
| Molecular weight | : 67.09                                      |
| CAS No.          | : 109-97-7                                   |
| EC-NO.           | : 203-724-7                                  |

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| Component | Classification                                                               | Concentration |
|-----------|------------------------------------------------------------------------------|---------------|
| Pyrrole   | Flam. Liq. 3; Acute Tox. 3; Acute Tox. 4; Eye Dam. 1; H226, H301, H332, H318 | ≥99%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media

no data available

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

Carbon oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Dispose of properly. Clean up affected area

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Flash back possible over considerable distance. Vapors may form explosive mixture with air. Container explosion may occur under fire conditions. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Light, Air, Moisture and Heat Sensitive , 2-8 °C, filled with argon, dry, and stored in a dark place.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## 8.2 Exposure controls

Appropriate engineering controls

Replacement of contaminated clothing. Skin protective lotion is recommended. Wash hands after using this substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                            |                                                  |
|--------------------------------------------|--------------------------------------------------|
| a) Appearance                              | form: liquid color: colorless to yellow to brown |
| b) Odour                                   | no data available                                |
| c) Odour Threshold                         | no data available                                |
| d) pH                                      | no data available                                |
| e) Melting point/freezing point            | -23°C                                            |
| f) Initial boiling point and boiling range | 131°C                                            |
| g) Flash point                             | 36°C                                             |
| h) Evaporation rate                        | no data available                                |
| i) Flammability (solid, gas)               | no data available                                |

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|                                                 |                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------|
| j) Upper/lower flammability or explosive limits | no data available                                                                                  |
| k) Vapour pressure                              | no data available                                                                                  |
| l) Vapour density                               | no data available                                                                                  |
| m) Relative density                             | 0.97                                                                                               |
| n) Water solubility                             | Slightly soluble in water, soluble in ethanol, ether, benzene, acetone and other organic solvents. |
| o) Partition coefficient: n-octanol/water       | no data available                                                                                  |
| p) Auto-ignition temperature                    | no data available                                                                                  |
| q) Decomposition temperature                    | no data available                                                                                  |
| r) Viscosity                                    | no data available                                                                                  |
| s) Explosive properties N                       | no data available                                                                                  |
| t) Oxidizing properties N                       | no data available                                                                                  |

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) . May decompose on exposure to air and moisture.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heating.

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 137 mg/kg

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Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: UX9275000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 210 mg/l - 96 h

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

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## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

Product

Dispose of the remaining and non recyclable solution to a licensed company.

Contaminated packaging

Laboratory chemicals, Manufacture of substances

## SECTION 14: Transport information

DOT (US)

UN number: 1992

Packing group: III

Class: 3 (6.1)

Proper shipping name: FLAMMABLE

Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

LIQUID, TOXIC, N.O.S. (pyrrole)

available

available

Environmental Hazards: no

IMDG

UN number: 1992

Packing group: III

EMS-No: no data available

Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (pyrrole)

IATA

UN number: 1992

Packing group: III

Class: 3 (6.1)

Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (pyrrole)

## SECTION 15: Regulatory information

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

## SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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