

ALFAAL19639

# Quinoline-5-boronic acid

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| 产品说明:                      | 喹啉-5-硼酸   |
|----------------------------|---|
| Product Description:       | Quinoline-5-boronic acid  |
| Cat No. :                  | <b>L19639</b>   |
| Molecular Formula          | C9 H8 BN O2   |
| Supplier                   | Avocado Research Chemicals Ltd.<br>(Part of Thermo Fisher Scientific)<br>Shore Road, Heysham<br>Lancashire, LA3 2XY,<br>United Kingdom<br>Office Tel: +44 (0) 1524 850506<br>Office Fax: +44 (0) 1524 850608  |
| Emergency Telephone Number | For information <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11<br>Emergency Number <b>US</b> :001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99<br><b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 / <b>Europe:</b> 001-703-527-3887 |
| E-mail address             | begel.sdsdesk@thermofisher.com  |
| Recommended Use            | Laboratory chemicals.   |
| Uses advised against       | No Information available  |

# **SECTION 2. HAZARD IDENTIFICATION**

| Physical State         | Appearance  | <b>Odor</b>              |
|------------------------|---|--------------------------|
| Solid                  | Cream   | No information available |
| Causes skin irritatior | Emergency Overview<br>n. Causes serious eye irritation. May cau |                          |

# Classification of the substance or mixture

| Skin Corrosion/Irritation                          | Category 2 |
|--|------------|
| Serious Eye Damage/Eye Irritation                  | Category 2 |
| Specific target organ toxicity - (single exposure) | Category 3 |

# Label Elements



Signal Word

Warning

Hazard Statements H315 - Causes skin irritation

# Quinoline-5-boronic acid

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

# **Precautionary Statements**

## Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection

## Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CENTER or doctor if you feel unwell

P362 + P364 - Take off contaminated clothing and wash it before reuse

## Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Disposal

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

## Physical and Chemical Hazards

# None identified.

# **Health Hazards**

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

## **Environmental hazards**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Is not likely mobile in the environment due its low water solubility. Spillage unlikely to penetrate soil.

This product does not contain any known or suspected endocrine disruptors.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                | CAS No      | Weight % |
|--------------------------|-------------|----------|
| Quinoline-5-boronic acid | 355386-94-6 | <=100    |

# **SECTION 4. FIRST AID MEASURES**

## **General Advice**

If symptoms persist, call a physician.

## Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

## Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

## Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

## Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

## Most important symptoms and effects

None reasonably foreseeable.

## Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## Notes to Physician

Treat symptomatically.

# **SECTION 5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Extinguishing media which must not be used for safety reasons

No information available.

# **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

## **Environmental Precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

Refer to protective measures listed in Sections 8 and 13.

# SECTION 7. HANDLING AND STORAGE

#### Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

## Specific Use(s)

Use in laboratories

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control Parameters**

## Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

#### Exposure Controls

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# Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

# Personal protective equipment

| Eye Protection  | Goggles   | (European standard   | I - EN 166)           |   |
|---|---|----------------------|-----------------------|---|
| Hand Protection   | Protectiv   | ve gloves            |                       |   |
| Glove material<br>Natural rubber<br>Butyl rubber<br>Nitrile rubber<br>Neoprene<br>PVC | Breakthrough time<br>See manufacturers<br>recommendations | Glove thickness<br>- | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

| Skin and body protection        | Long sleeved clothing   |
|---------------------------------|---|
| Respiratory Protection          | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.<br>To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly   |
| Large scale/emergency use       | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143  |
| Small scale/Laboratory use      | Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.<br><b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141<br>When RPE is used a face piece Fit Test should be conducted |
| Hygiene Measures                | Handle in accordance with good industrial hygiene and safety practice.  |
| Environmental exposure controls | No information available.   |

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance<br>Physical State   | Cream<br>Solid   |   |
|--|--|---|
| Odor<br>Odor Threshold<br>pH<br>Melting Point/Range<br>Softening Point<br>Boiling Point/Range<br>Flash Point<br>Evaporation Rate<br>Flammability (solid,gas)<br>Explosion Limits | No information available<br>No data available<br>No information available<br>160 - 162 °C / 320 - 323.6 °F<br>No data available<br>No information available<br>Not applicable<br>No information available<br>No data available | <b>Method -</b> No information available<br>Solid |

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| Vapor Pressure                     | No data available        |       |
|------------------------------------|--------------------------|-------|
| Vapor Density                      | Not applicable           | Solid |
| Specific Gravity / Density         | No data available        |       |
| Bulk Density                       | No data available        |       |
| Water Solubility                   | Insoluble in water       |       |
| Solubility in other solvents       | No information available |       |
| Partition Coefficient (n-octanol/v | vater)                   |       |
| Autoignition Temperature           | No data available        |       |
| Decomposition Temperature          | No data available        |       |
| Viscosity                          | Not applicable           | Solid |
| Explosive Properties               | No information available |       |
| Oxidizing Properties               | No information available |       |
| Molecular Formula                  | C9 H8 BN O2              |       |
| Molecular Weight                   | 172.98                   |       |

# **SECTION 10. STABILITY AND REACTIVITY**

| Stability                                       | Stable under normal conditions.                            |
|---|--|
| Hazardous Reactions<br>Hazardous Polymerization | None under normal processing.<br>No information available. |
| Conditions to Avoid                             | None known.  |
| Materials to avoid                              | No information available.                                  |

Hazardous Decomposition Products None under normal use conditions.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

| Product Information   |  |
|---|--|
| (a) acute toxicity;   |  |
| (b) skin corrosion/irritation;                                | Category 2   |
| (c) serious eye damage/irritation;                            | Category 2   |
| (d) respiratory or skin sensitization;<br>Respiratory<br>Skin | No data available<br>No data available   |
| (e) germ cell mutagenicity;                                   | No data available  |
| (f) carcinogenicity;  | No data available<br>There are no known carcinogenic chemicals in this product |
| (g) reproductive toxicity;                                    | No data available  |
| (h) STOT-single exposure;                                     | Category 3   |
| Results / Target organs                                       | Respiratory system   |

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| (i) STOT-repeated exposure;               | No data available                                  |
|---|--|
| Target Organs                             | No information available.                          |
| (j) aspiration hazard;                    | Not applicable<br>Solid                            |
| Symptoms / effects,both acute and delayed | No information available                           |
|   | SECTION 12. ECOLOGICAL INFORMATION                 |
| Ecotoxicity effects                       | Contains no substances known to be hazardous to th |

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| Persistence Insoluble in wat |     |
|------------------------------|-----|
|                              | er. |

Persistence and Degradability

Bioaccumulative Potential May have some potential to bioaccumulate

- Mobility in soil
   Spillage unlikely to penetrate soil
   Is not likely mobile in the environment due its low water solubility
- Endocrine Disruptor Information<br/>Persistent Organic PollutantThis product does not contain any known or suspected endocrine disruptors<br/>This product does not contain any known or suspected substanceOzone Depletion PotentialThis product does not contain any known or suspected substance
  - **SECTION 13. DISPOSAL CONSIDERATIONS**

| Waste from Residues/Unused | Waste is classified as hazardous. Dispose of in accordance with the European Directives |
|----------------------------|---|
| Products                   | on waste and hazardous waste. Dispose of in accordance with local regulations.          |

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

Other Information Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14. TRANSPORT INFORMATION

| Road and Rail Transport | Not Regulated |
|-------------------------|---------------|
|                         |               |
|                         |               |

Special Precautions for User

IMDG/IMO

IATA

No special precautions required

Not regulated

Not regulated

# SECTION 15. REGULATORY INFORMATION

# **Quinoline-5-boronic acid**

## **International Inventories**

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

## **National Regulations**

# **SECTION 16. OTHER INFORMATION**

Prepared By **Revision Date Revision Summary**  Health, Safety and Environmental Department 08-May-2024 New emergency telephone response service provider.

# **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hvaiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

#### Legend

| CAS - Chemical Abstracts Service  | <b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory                  |
|---|--|
| EINECS/ELINCS - European Inventory of Existing Commercial Chemical  | DSL/NDSL - Canadian Domestic Substances List/Non-Domestic  |
| Substances/EU List of Notified Chemical Substances<br><b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances | Substances List<br>ENCS - Japanese Existing and New Chemical Substances                          |
| IECSC - Chinese Inventory of Existing Chemical Substances<br>KECL - Korean Existing and Evaluated Chemical Substances           | AICS - Australian Inventory of Chemical Substances<br>NZIOC - New Zealand Inventory of Chemicals |
|   |  |

| WEL - Workplace Exposure Limit                                    | TWA - Time Weighted Average                        |
|---|--|
| ACGIH - American Conference of Governmental Industrial Hygienists | IARC - International Agency for Research on Cancer |
| DNEL - Derived No Effect Level                                    | PNEC - Predicted No Effect Concentration           |
| RPE - Respiratory Protective Equipment                            | LD50 - Lethal Dose 50%                             |
| LC50 - Lethal Concentration 50%                                   | EC50 - Effective Concentration 50%                 |
| NOEC - No Observed Effect Concentration                           | POW - Partition coefficient Octanol:Water          |
| PBT - Persistent, Bioaccumulative, Toxic                          | vPvB - very Persistent, very Bioaccumulative       |
|   |  |
|   |  |

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**OECD** - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor

#### Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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# End of Safety Data Sheet