Pyrroloquinoline Quinone （PQQ）Disodium Salt

MSDS / SDS

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Section 1. Chemicals and Enterprise Information

Material Information

Chemical Name：PYRROLOQUINOLINE QUINONE DISODIUM SALT

CB No.：CB3728738 CAS No.：122628-50-6

Synonyms： PQQ

Relevant identified uses of the substance or mixture and uses not recommended

Confirmed use: for research and development only. Not for pharmaceutical, domestic or other purposes.

It is suggested to prohibit the use: none at present.

Supplier Information

Company Name：Hubei Magic Health Technology Co.,Ltd

Address：No.189 Xiaoting Avenue, Xiaoting District, Yichang, Hubei, China

Tel.：86-0717-6306136

Section 2. Hazards identification

GHS Hazards Classification

It is not a hazardous substance or mixture according to regulation of the Global Harmonized System (GHS).

GHS Label Elements (including precautionary instructions)

Pictogram 

Physical and Chemical Hazards

According to the current information, there is no physical or chemical hazard.

Health Hazards

According to the current information, there is no health hazard.

Environment Effects

According to the current information, there is no environment effects.

Other Hazards

- None

Section 3. Composition/Information on Ingredients

Substances

Chemical Name：PYRROLOQUINOLINE QUINONE DISODIUM SALT

Synonyms： PQQ

CAS No.：122628-50-6

Formula：$C_{14}H_4N_2Na_2O_8$

Molecular Weight：374.17

Section 4. First Aid Measures

Description of First Aid Measures

Inhalation

If inhaled, remove from exposure to fresh air immediately. If breathing ceases, perform artificial respiration.

Skin Contact

Wash off with soap and plenty of water.

Eye Contact

Flush eyes with water as a precaution.

Ingestion

Do NOT feed anything to an unconscious person. Rinse the mouth with water.

Most Important Symptoms and Health Effects
The most important known symptoms and effects are described in the label (see Section 2.2) and/or in Section 11.

Instructions and Notice for immediate medical treatment and special treatment as required
Not available

Special Remarks to Doctors
Not available

Section 5. Fire Fighting Measures

Extinguishing media

Firefighting ways and extinguishant

Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide to extinguish fire.

Special hazards arising from the substance or mixture

Precautions and protective measures for fire extinguishing

Wear self-contained breathing apparatus for fire-fighting if necessary.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, aerosols or gases. See Section 8 for personal protection.

Environmental precautions

Do not allow the product to enter the drains.

Storage and removal methods of leaked chemicals and disposal materials used

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

Reference to other sections

see section 13 for disposal.

Section 7. Handling and Storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions pls see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and airy area.

The recommended storage temperature is 2 - 8 ° C. inflatable storage, is sensitive to humidity.

Section 8. Exposure Controls/Personal Protection

Control parameters

Hazard composition and occupational exposure limit

There are no already known national exposure limits.

Exposure Controls

Appropriate Engineering Controls

Handle in accordance with regular industrial health and safety practice.

Personal Protective Equipment

Eye/Face Protection

Use equipment tested and approved under appropriate official standards such as NIOSH (US) or EN 166(EU for eye protection.

Skin Protection

The protective gloves selected must comply with the specifications of regulation (EU) 2016 / 425 and the EN 374 standard derived from it.

Handle with gloves. Gloves must be inspected prior to use. Remove the gloves with appropriate methods (do not touch the outer surface of the gloves) to avoid skin contact with this product. After use, dispose of contaminated gloves with caution, in accordance with applicable regulations and good laboratory practices. Wash and dry your hands.

Body Protection

Choose body protection according to the type, concentration and amount of hazardous substances, and the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks.
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Powder, reddish brown
Flavor	Not available
Falvor Threshold	Not available
pH value	Not available
Melting point/freezing point	Not available

Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Vapor pressure	Not available
Vapor density	Not available
Density/Relative density	Not available
Water solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

Other safety information
Not available

Section 10. Stability and Reactivity

Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

available

Conditions to Avoid

Not available

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

In case of fire, it will decompose into harmful substances - carbon oxide, nitrogen oxide and sodium oxide.

Other Decomposition Products - Not available

In case of fire: see section 5 fire extinguishing measures.

Section 11 Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Not Available
Not Available

Skin Corrosion/Irritation

Not Available
Not Available

Serious Eye Injury/Eye Irritation

Not Available
Not Available

Respiratory or Skin Sensitization

Not Available

Germ cell mutagenicity

Not Available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Additional Information

Registry of Toxic Effects of Chemical Substances (RTECS): Not Available

Section 12. Ecological Information

Ecological Toxicity

Not Available

Persistence and Degradability

Not Available

Bio-accumulative Potential

Not Available

Mobility in Soil

Not Available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Environmentally Harmful Effects

Not Available

Section 13. Disposal Considerations

Waste Treatment Methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging

Dispose of as unused product.

Section 14. Transport Information

UN number

- European Land Danger Regulations / ADR/RID:
- International Maritime Danger Regulations / IMDG
- International Air Danger Regulations / IATA-DGR

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

Transport hazard class(es)

- European Land Danger Regulations / ADR/RID:
- International Maritime Danger Regulations / IMDG
- International Air Danger Regulations / IATA-DGR

Packaging group

- European Land Danger Regulations / ADR/RID:
- International Maritime Danger Regulations / IMDG
- International Air Danger Regulations / IATA-DGR

Environmental hazards

ADR/RID European Agency Responsible for Road Transport / European Agency Responsible for Rail Transport： No
International Maritime Dangerous Goods Regulations (IMDG) Marine pollutant（Yes/No）：No
International Air Transport Dangerous Regulations / IATA-DGR： No

Special precautions for user

Please select appropriate transportation tools and corresponding transportation and storage conditions according to the chemicals' properties. The means of transport shall be equipped with corresponding varieties and quantities of fire-fighting materials and leakage emergency treatment equipment. If you choose road transportation, please drive according to the specified route.

Incompatible materials

Strong oxidant

Section 15. Regulatory Information

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

Classification of occupational hazard factors in the law of the people's Republic of China on the prevention of occupational diseases: not included.

Regulations on safety management of hazardous chemicals

Catalogue of hazardous chemicals (2018): not included

Registration Measures for environmental management of hazardous chemicals

Catalogue of key hazardous chemicals for environmental management (2014): not included

Regulations on the administration of narcotic drugs and psychotropic substances

Catalogue of narcotic drugs (2013): not included

Catalogue of psychotropic drugs (2013): not included

New environmental management measures for chemical substances

List of existing chemical substances in China: not included

Other Rules
Please note that waste disposal should also meet the requirements of local regulations.

Section 16. Further Information

Literature

【1】 International Programme on Chemical Safety(ICSC)，website：http://www.ilo.org/dyn/icsc/showcard.home。

【2】International Agency for Research on Cancer (IARC), website：http://www.iarc.fr/。

【3】OECD (Global Chemicals Information Platform)，website：http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en。

【4】American CAMEO (CAS REGISTRY)，website：http://cameochemicals.noaa.gov/search/simple。

【5】American Library of Medicine (NLM)： (Chemical identification database)，website：http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp。

【6】U.S. Environmental Protection Agency (USEPA)： (Integrated hazard information system)，website：http://cfpub.epa.gov/iris/。

【7】U.S. Department of Transportation (USDOT)：Emergency Response Guide (ERPG)，website：http://www.phmsa.dot.gov/hazmat/library/erg。

【8】Germany GESTIS- (Hazardous Substances Database)，website：http://gestis-en.itrust.de/。

【9】Sigma-Aldrich，website：https://www.sigmaaldrich.com/