1. Product Identification

Synonyms: Quinacrine dihydrochloride dihydrate, quinacrine hydrochloride, quinacrine HCl, 6-chloro-9-((4-(diethylamino)-1-methylbutyl)amino)-2-methoxyacridine dihydrochloride, arichin, atabrine, atabrine hydrochloride, atabrine dihydrochloride, chemiochin, chinacrin, chinacrin hydrochloride, crinodora, erion, italchin, malaricida, meryl, mepacrine dihydrochloride, methoquine, metochin, metoquin, palacrin, palusan, 866 R.P., SN 390 and various other trade names.

CAS No.: 69-05-6
Molecular Weight: 437.992
Chemical Formula: C_{23}H_{30}ClN_{3}O.HCl.2H_{2}O
Product Codes: CHEM-298 and others

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Percent</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quinacrine Dihydrochloride Dihydrate</td>
<td>69-05-6</td>
<td>99 - 100%</td>
<td>Yes</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Emergency Overview
May be harmful by inhalation, ingestion or if absorbed through the skin. May cause discolouration of skin.

SAF-T-DATA™ Ratings (Provided here for your convenience)
Health Rating: 2 - Moderate
Flammability Rating: 1 - Slight
Reactivity Rating: 0 - None
Contact Rating: 1 - Slight
Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES
Storage Color Code: Green (General Storage)
4. First Aid Measures

**Inhalation:**
Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:**
Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:**
Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:**
Not expected to require first aid measures. Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

**Fire:**
Not considered to be a fire hazard.

**Explosion:**
Finely divided powder presents an explosion hazard.

**Fire Extinguishing Media:**
Use any means suitable for extinguishing surrounding fire.

**Special Information:**
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Zinc oxide fume may be released when heated.

6. Accidental Release Measures

Clean-up personnel require protective clothing and respiratory protection from dust. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

**Spills:**
Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

**Ventilation System:**
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.
Personal Respirators (NIOSH Approved):
If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:
Wear protective gloves and clean body-covering clothing.

Eye Protection:
Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:
Yellow crystals or powder; fluorescent under UV light

Solubility:
Slightly water soluble.

Specific Gravity:
No information found.

pH:
No information found.

% Volatiles by volume @ 21°C (70°F):
No information found.

Boiling Point:
No information found.

Melting Point:
~248°-250°C (Decomposes)

Vapor Density (Air=1):
No information found.

Vapor Pressure (mm Hg):
No information found.

Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.

Hazardous Polymerization:
Will not occur.

Incompatibilities:
Strong oxidizing agents.

Conditions to Avoid:
Incompatibles.
11. Toxicological Information

Toxicological Data:
ORL-RAT LD50 900 mg kg\textsuperscript{-1}
ORL-MUS LDLO 1000 mg kg\textsuperscript{-1}
SCU-MUS LD50 212 mg kg\textsuperscript{-1}
IVN-MUS LDLO 37 mg kg\textsuperscript{-1}
ORL-RBT LDLO 400 mg kg\textsuperscript{-1}

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

No information found.

16. Other Information

Product Use:
Laboratory Reagent, Aquarium Fish Disease Treatment and Consumer Hobby.
Revision Information:
None
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