Material Safety Data Sheet
8-Hydroxyquinoline

ACC# 30450

Section 1 - Chemical Product and Company Identification

MSDS Name: 8-Hydroxyquinoline
Catalog Numbers: BP436 100, BP436-100, BP436100, O261 100, O261 500, O261-100, O261-500, O261100, O261500
Synonyms: Bioquin, 8-chinolinol, oxin, oxine, oxybenzopyridine, oxichinolin, oxochinolin, phenoilpyridine, 8-quino, 8-quinolinol
Company Identification:
  Fisher Scientific
  1 Reagent Lane
  Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>148-24-3</td>
<td>8-hydroxyquinoline</td>
<td>ca. 100</td>
<td>205-711-1</td>
</tr>
</tbody>
</table>

Hazard Symbols: XN
Risk Phrases: 20/21/22

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: pale yellow. **Caution!** Light sensitive. May be harmful if swallowed. May cause reproductive effects based upon animal studies. Causes eye and skin irritation. Causes digestive and respiratory tract irritation.
Target Organs: None.

Potential Health Effects

Eye: Causes eye irritation.
Skin: Causes skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.
Inhalation: Dust is irritating to the respiratory tract.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Firefighting Measures

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

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.
Autoignition Temperature: Not available.
Flash Point: Not available (estimated) Health: ; Flammability: ; Reactivity: Explosion Limits, Lower: Not available. Upper: Not available.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.
Storage: Store in a cool place in the original container and protect from sunlight.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-hydroxyquinoline</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs: 8-hydroxyquinoline: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: pale yellow
Odor: odorless
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate:
Viscosity: Not available.
Boiling Point: 267 deg C
Freezing/Melting Point: 72-74 deg C
Decomposition Temperature: Not available.
Solubility: Almost insoluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: C9H7NO
Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong oxidizing agents, light, strong acids, common metals.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:  
CAS#: 148-24-3: VC4200000
LD50/LC50:
CAS#: 148-24-3:
Inhalation, rat: LC50 =>1210 mg/m3/6H;
Oral, mouse: LD50 = 20 gm/kg;
Oral, rat: LD50 = 1200 mg/kg;
Carcinogenicity:
CAS#: 148-24-3:
IARC: Group 3 carcinogen
**Epidemiology:** No data available.
**Teratogenicity:** No data available.
**Reproductive Effects:** Experimental reproductive effects.
**Neurotoxicity:** No data available.
**Mutagenicity:** RTECS reports mutagenicity studies in laboratory experiments with bacteria, microorganisms, and laboratory animals. 8-Hydroxyquinoline tested positive in a histidine reversion Ames test.
**Other Studies:** No data available.

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### Section 12 - Ecological Information

**Ecotoxicity:** Not available.
**Environmental Fate:** Not available.
**Physical/Chemical:** Not available.
**Other:** Not available.

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### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
**RCRA D-Series Maximum Concentration of Contaminants:** None listed.
**RCRA D-Series Chronic Toxicity Reference Levels:** None listed.
**RCRA F-Series:** None listed.
**RCRA P-Series:** None listed.
**RCRA U-Series:** None listed.

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### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>US DOT</th>
<th>IATA</th>
<th>RID/ADR</th>
<th>IMO</th>
<th>Canada TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Name:</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

**Hazard Class:**

**UN Number:**

**Packing Group:**

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### Section 15 - Regulatory Information

**US FEDERAL**

**TSCA**
CAS# 148-24-3 is listed on the TSCA inventory.

**Health & Safety Reporting List**
None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**
None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**
None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**
None of the chemicals in this material have a SNUR under TSCA.
SARA

Section 302 (RQ)
None of the chemicals in this material have an RQ.

Section 302 (TPQ)
None of the chemicals in this product have a TPQ.

SARA Codes
CAS # 148-24-3: acute.

Section 313
No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 148-24-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:
XN

Risk Phrases:
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)
CAS# 148-24-3: 3

Canada
CAS# 148-24-3 is listed on Canada's DSL/NDSL List.
This product has a WHMIS classification of D2B.
CAS# 148-24-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

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Section 16 - Additional Information

MSDS Creation Date: 5/25/1995
Revision #7 Date: 12/12/1997

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if Fisher has been advised of the possibility of such damages.

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