



**4-HYDROXYCOUMARIN, 98%**

**\*\*\*\* SECTION 1 - CHEMICAL PRODUCT \*\*\*\***

MSDS Name: 4-HYDROXYCOUMARIN, 98%

Catalog Numbers:

12110-0000, 12110-0050, 12110-1000, 12110-5000

Synonyms:

**\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\***

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CAS#	Chemical Name	%	EINECS#	Haz
1076-38-6	4-HYDROXYCOUMARIN, 98%	98%	214-060-2	

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

**\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\***

**EMERGENCY OVERVIEW**

Not available.

**Potential Health Effects**

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

**Ingestion:**

May be harmful if swallowed.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

Not available.

**\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\***

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**

Get medical aid. Wash mouth out with water.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

**\*\*\*\* SECTION 5 - FIRE FIGHTING 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:**

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\***

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container.

**\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\***

**Handling:**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:**

Store in a cool, dry place. Store in a tightly closed container. Poison room locked.

**\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\***

**Engineering Controls:**

Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment**

**Eyes:**

Wear safety glasses and chemical goggles if splashing is possible.

**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 29 CFR 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:            Chunks  
Color:                    yellow  
Odor:                     odorless  
pH:                        Not available.  
Vapor Pressure:           Not available.  
Viscosity:                Not available.  
Boiling Point:            Not available.  
Freezing/Melting Point: 210-215 deg C  
Autoignition Temperature: Not available.  
Flash Point:              Not available.  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature:  
Solubility in water:      practically insoluble  
Specific Gravity/Density:  
Molecular Formula:      C<sub>9</sub>H<sub>6</sub>O<sub>3</sub>  
Molecular Weight:        162.14

**\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\***

**Chemical Stability:**

Not available.

**Conditions to Avoid:**

Incompatible materials.  
Incompatibilities with Other Materials:  
Strong oxidizing agents, strong bases.  
Hazardous Decomposition Products:  
Carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:  
CAS# 1076-38-6: DJ3100000  
LD50/LC50:  
CAS# 1076-38-6: Oral, mouse: LD50 = 2 gm/kg.  
Carcinogenicity:  
4-HYDROXYCOUMARIN, 98% -  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
See actual entry in RTECS for complete information.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

IATA  
No information available.  
IMO  
No information available.  
RID/ADR  
No information available.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available.  
Risk Phrases:  
Safety Phrases:  
S 24/25 Avoid contact with skin and eyes.  
WGK (Water Danger/Protection)  
CAS# 1076-38-6: No information available.  
United Kingdom Occupational Exposure Limits  
  
United Kingdom Maximum Exposure Limits

Canada

CAS# 1076-38-6 is listed on Canada's NDSL List.

CAS# 1076-38-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 1076-38-6 is listed on the TSCA inventory.

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 9/25/1996 Revision #0 Date: Original.

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