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## MATERIAL SAFETY DATA SHEET (MSDS)

### QUERCETIN (DIHYDRATE)

#### 1 - Chemical Product

Product Name: Quercetin  
 Synonym: 4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxy-, dihydrate; Flavone, 3,3',4',5,7-pentahydroxy-, dihydrate

Cas no: 6151-25-3

Product Coad: Q0172500025

Molecular Formula: C<sub>15</sub>H<sub>10</sub>O<sub>7</sub>.2H<sub>2</sub>O  
 Molecular Weight: 338.26

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
6151-25-3	Quercetin dihydrate	99	unlisted

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Toxic if swallowed. Toxic.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: The toxicological properties of this substance have not been fully investigated. May cause irritation of the mucous membranes. May cause irritation of the upper respiratory tract and bronchi.

Chronic: Substance may have carcinogenic potential. May alter genetic material.

#### 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 immediately.

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

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or 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:

#### 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

#### 6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks: Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

#### 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only in a chemical fume hood. Do not breathe dust or fumes.

Storage: Keep containers tightly closed. Store in a cool, dry area away from incompatible substances.

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**MATERIAL SAFETY DATA SHEET (MSDS)****QUERCETIN (DIHYDRATE)****8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 6151-25-3: 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: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: yellow

Odor: none reported

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: > 300 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 95.0 - 97.0 de

Solubility in water: practically insoluble

Specific Gravity/Density: Not available.

Molecular Formula: C<sub>15</sub>H<sub>10</sub>O<sub>7</sub>·2H<sub>2</sub>O

Molecular Weight: 338.26

**10 - STABILITY AND REACTIVITY****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong acids.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, acrid smoke and fumes.

Hazardous Polymerization: Has not been reported

**11 - TOXICOLOGICAL INFORMATION****RTECS#:**

CAS# 6151-25-3: LK8950000 LD50/LC50:

CAS# 6151-25-3: Oral, mouse: LD50 = 159 mg/kg.

**Carcinogenicity:**

Quercetin dihydrate - Not listed by ACGIH, IARC, or NTP.

**Other:**

See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION**

Other No information available.

**13 - DISPOSAL CONSIDERATIONS**

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

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**MATERIAL SAFETY DATA SHEET (MSDS)****QUERCETIN (DIHYDRATE)****14 - TRANSPORT INFORMATION****IATA**

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.\*

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

**IMO**

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

**RID/ADR**

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing group: III

**15 - REGULATORY INFORMATION****European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 25 Toxic if swallowed.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 6151-25-3: No information available.

**Canada**

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 6151-25-3 is not listed on Canada's Ingredient Disclosure List.

**US FEDERAL****TSCA**

CAS# 6151-25-3 is not listed on the TSCA inventory.

It is for research and development use only.

**16. Other Information****Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**