

## Safety Data Sheet

### Quercetin Dihydrate

Cat#: orb322779

Updated Date: 6/11/2020

#### Section 1. Product and Company Identification

**Product Name** Quercetin Dihydrate

**Catalog No.** orb322779

**Chemical Name (Synonyms)** CCRIS 3304

#### Section 2. Hazards Identification

**GHS Classification** Acute toxicity, Oral (Category 3), H301

#### GHS Label elements including precautionary statements



**Pictogram:**

**Signal word:** Danger

**Hazard statement**

**Hazard and precautionary statements**

H301 - Toxic if swallowed.

**Precautionary statements**

P364 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P330 - Rinse mouth.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 2

Chronic health hazard: \*

Flammability: 0

Physical hazard: 0

### NFPA Rating

Health hazard: 2

Fire hazard: 0

Reactivity hazard: 0

### Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: May cause eye irritation.

Ingestion: Acute toxicity. Toxic if swallowed.

## Section 3. Composition/Information on Ingredients

### Substances

**Formula**  $C_{15}H_{10}O_7 \cdot 2H_2O$

**Formula Wt.** 338.26

**CAS No.** 6151-25-3

**EC No.** 204-187-1

## Section 4. First Aid Measures

**General advice** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eye Contact** Flush eyes with water as a precaution.

**Skin Contact** Wash off with soap and plenty of water. Consult a physician.

**Inhalation** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5. Firefighting Measures

### Flash Point

Not available.

### Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing.

### Unusual Fire Hazards

Carbon oxides

## Section 6. Accidental Release Measures

### Personal Precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **Methods and materials for containment and cleanup**

Avoid raising dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **Section 7. Handling and Storage**

#### **Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### **Storage Conditions**

Store in a cool, dry place in a tightly closed container.

Recommended storage temperature: 4°C

#### **Hazardous Decomposition Products**

Not available.

### **Section 8. Exposure Controls/Personal Protection**

#### **Personal protective equipment**

#### **EXPOSURE CONTROLS**

Contains no substances with occupational exposure limit values.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **PERSONAL PROTECTION**

**Eye/face protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and splash contact - Material: nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min.

**Body protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirator and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9. Physical and Chemical Properties

**Physical State** Solid.

**Boiling Point** Not available.

**Melting Point** 314°C(dec)

**Solubility** Soluble in ethanol. Insoluble in water.

**Flash Point** Not available.

**Lower explosion limit** Not available.

**Upper explosion limit** Not available.

**Water solubility** Insoluble in water.

**Partition coefficient** Not available.  
**n-octanol/water**

**Relative vapor density** Not available.

**Color** Yellow or greenish-yellow crystalline powder.

**Volatility** Not available.

**Density** Not available.

**pH** Not available.

**Ignition temperature** Not available.

**Autoignition temperature** Not available.

**Vapor pressure** Not available.

**Odor** Not available.

**Odor Threshold** Not available.

**Evaporation rate** Not available.

## Section 10. Stability and Reactivity

### Stability

Stable under recommended storage conditions.

### Materials To Avoid

Keep Away from strong oxidizing agents and strong acids.

### Hazardous Decomposition Products

Not available.

### Possibility of hazardous reactions

Not available.

### Conditions to avoid

Not available.

## Section 11. Toxicological Information

### Oral LD50

Mouse - 159 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral weakness and respiratory disorder.

### Inhalation LC50

Not available.

### Dermal LD50

Not available.

### Other information on acute toxicity

Not available.

### Reproductive Toxicity

Not available.

**Specific organ toxicity single exposure (GHS)**

Not available.

**Specific organ toxicity repeated exposure (GHS)**

Not available.

**Teratogenicity**

Not available.

**Skin corrosion/irritation**

Not available.

**Serious eye damage/irritation**

Not available.

**Respiratory or skin sensitization**

Not available.

**Germ cell mutagenicity**

Laboratory experiments have shown mutagenic effects.

**Aspiration Hazard**

Not available.

**Synergistic effects**

Not available.

**Additional Information**

RTECS: LK8950000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Signs and symptoms of exposure**

Not available.

**Potential Health Effects**

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: Acute toxicity. Harmful if swallowed.

**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.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

### PBT and vPvB assessment

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

**Persistence and degradability** Not available.

**Other adverse effects** Not available.

**Bioaccumulative potential** Not available.

## Section 13. Disposal Considerations

### Waste Disposal

Dispose of material according to all federal, state, and local regulations.

Offer material to a licensed, professional waste disposal company to dispose of as unused product.

## Section 14. Transport Information

### DOT (US)

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: toxic solids, organic, n.o.s. (3,3',4',5,7-Pentahydroxyflavone dihydrate)

Marine pollutant: No Poison inhalation hazard: No.

### IATA

UN number: 2811 Class: 6.1 Packing group: III EMS NO.: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (3,3',4',5,7-Pentahydroxyflavone dihydrate)

Marine pollutant: No

### IMDG

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: toxic solids, organic, n.o.s. (3,3',4',5,7-Pentahydroxyflavone dihydrate)

## Section 15. Regulatory Information

### Reach No.

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Acute health hazard.

**Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right**

**To Know Components** Quercetin dihydrate CAS #: 6151-25-3

**New Jersey Right to Know Components** Quercetin dihydrate CAS #: 6151-25-3

**California Prop 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16. Other Information**

**Other information**

The information in this document is believed to be correct but is not necessarily complete. Biorbyt does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.