

73932 73934 - Quercetin (Hydrate)

Revision Date 25-May-2020 Revision Number 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Quercetin (Hydrate)

Other means of identification

Catalog Number 73932 73934

**UN/ID no.** 2811

Document Number DX21624

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier

STEMCELL Technologies Canada Inc. Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6 Canada

Emergency telephone number

Emergency Telephone 1-800-667-0322

# 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



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Danger

Hazard statements

Toxic if swallowed



Appearance Crystalline

Physical state Solid

Odor No information available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

# **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other Information

Not applicable

# Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical name	CAS No.	Weight-%
2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benz	849061-97-8	100
opyran-4-one		



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# 4. FIRST AID MEASURES

**Description of first aid measures** 

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.



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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**Environmental precautions** 

See Section 12 for additional Ecological Information. **Environmental precautions** 

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

# 7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Advice on safe handling

Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store in accordance with information listed on the Product **Storage Conditions** 

Information Sheet (PIS).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

> level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

> recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

**Appropriate engineering controls** 



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**Engineering controls** Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

No special protective equipment required. Eye/face protection

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid Crystalline **Appearance** 

No information available Color No information available Odor **Odor threshold** No information available

Remarks • Method Property Values

No data available None known pН No data available Melting point / freezing point None known Boiling point / boiling range No data available None known Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit: No data available No data available Lower flammability limit:

No data available None known Vapor pressure Vapor density No data available None known Relative density No data available None known Water solubility No data available None known None known

Solubility in other solvents ~1 mg/mL in a 1:4 solution of

DMSO:PBS (pH 7.2); ~2 mg/mL in

EtOH; ~30 mg/mL in DMSO & DMF;

Partition coefficient No data available None known **Autoignition temperature** No data available None known No data available **Decomposition temperature** None known



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Kinematic viscosity

No data available

None known

No data available

None known

Explosive properties

Oxidizing properties

No information available
No information available

Other Information

Softening point No information available

Molecular weight 302.2

Molecular formulaC15H10O7 • XH2OVOC Content (%)No information availableLiquid DensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid None known based on information supplied.

**Incompatible materials** Strong acids. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available. Toxic if swallowed. (based

on components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.



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Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 161.00 mg/kg

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0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(3,4-Dihydroxyphenyl)-3,5,7-tr	= 161 mg/kg (Rat)	-	-
ihydroxy-4H-1-benzopyran-4-on	= 159 mg/kg ( mouse )		
е			
849061-97-8			

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

No information available. Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
2-(3,4-Dihydroxyphenyl)-	-	Group 3	-	-
3,5,7-trihydroxy-4H-1-ben		•		
zopyran-4-one				
849061-97-8				

Reproductive toxicity No information available.

No information available. STOT - single exposure

STOT - repeated exposure No information available.

No information available. **Aspiration hazard** 

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12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

**Note:** Transport in accordance with local, state, and federal regulations. When sold in quantities

of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging

does not have to be labeled as Dangerous Goods/Excepted Quantity.

DOT

**UN/ID no.** 281

Proper shipping name Toxic solids, organic, n.o.s. (Quercetin (hydrate))

Hazard class 6.1 Toxic substances

Packing Group

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

<u>IATA</u>



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**UN proper shipping name** Toxic solid, organic, n.o.s. (Quercetin (hydrate))

Transport hazard class(es) 6.1 Toxic substances

Packing Group III

**IMDG** 

UN Number 2811

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S. (Quercetin(hydrate))

Transport hazard class(es) 6.1 Toxic substances

Packing Group III

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCS
Does not comply
Complies
KECL
PICCS
AICS
Does not comply
Complies
Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic Health Hazard No



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Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

**US State Regulations**This product does not contain any substances regulated by state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By, Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 25-May-2020

**Revision Note**No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

**End of Safety Data Sheet** 



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