Date of issue: 10/17/2014

SECTION 1. Identification Product identifier	
Product number	551600
Product name	Quercetin, Dihydrate
Synonyms	3,3',4',5,7-Pentahydroxyflavone
CAS-No.	6151-25-3
Relevant identified uses of t	the substance or mixture and uses advised against
Identified uses	Reagent for research and development
Details of the supplier of the	afety data sheet
Company	EMD Millipore Corporation   290 Concord Road, Billerica, MA 01821, United States of America   General Inquiries: +1-978-715-4321   Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

## SECTION 2. Hazards identification

## **GHS** Classification

Acute toxicity, Category 3, Oral, H301 For the full text of the H-Statements mentioned in this Section, see Section 16.

## **GHS-Labeling**

Hazard pictograms



Danger

Hazard Statements H301 Toxic if swallowed.

Precautionary Statements



Version 1.0

Product number	551600	Version 1.0
Product name	Quercetin, Dihydrate	
P264 Wash skin thorou	ughly after handling.	
P270 Do not eat, drink	or smoke when using this product.	
P301 + P310 IF SWAL	LOWED: Immediately call a POISON CENTER or c	doctor/ physician.
P321 Specific treatment	nt (see supplemental first aid instructions on this lab	pel).
P330 Rinse mouth.		

P405 Store locked up.

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

### Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Formula	C15H10O7*2H2O
	(Hill)
Synonyms	3,3',4',5,7-Pentahydroxyflavone
Molar mass	338.27 g/mol

## Hazardous ingredients

Chemical Name ( Concentration) CAS-No. *3,3',4',5,7-Pentahydroxyflavone dihydrate ( >= 90 % - <= 100 % )* 6151-25-3 Exact percentages are being wihtheld as a trade secret.

Exact percentages are being wintheid as a trade se

## SECTION 4. First aid measures

## Description of first-aid measures

*Inhalation* After inhalation: fresh air.

### Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

### Eye contact

After eye contact: rinse out with plenty of water.

### Ingestion

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

Never give anything by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

# Indication of any immediate medical attention and special treatment needed No information available.

Product number	551600	
Product name	Quercetin, Dihydrate	

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#### SECTION 5. Fire-fighting measures

#### Extinguishing media

*Suitable extinguishing media* Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Combustible.

Development of hazardous combustion gases or vapors possible in the event of fire.

#### Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

## Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Protected from light.

Store at +15°C to +30°C (+59°F to +86°F).

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#### SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

Contains no substances with occupational exposure limit values.

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

#### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

#### Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

# *Eye/face protection* Safety glasses

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

*Other protective equipment:* protective clothing

#### Respiratory protection

#### required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## SECTION 9. Physical and chemical properties

Physical state	powder
Color	yellow
Odor	No strong odor known.
Odor Threshold	No information available.
рН	No information available.
Melting point	316 - 317 °C (decomposition)
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.

Product number Product name	551600 Quercetin, Dihydrate	Version 1.0
Flammability (solid, gas)	No information available.	
Lower explosion limit	No information available.	
Upper explosion limit	No information available.	
Vapor pressure	No information available.	
Relative vapor density	No information available.	
Density	No information available.	
Relative density	No information available.	
Water solubility	No information available.	
Partition coefficient: n-	No information available.	
octanol/water Autoignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Oxidizing properties	none	

## SECTION 10. Stability and reactivity

#### Reactivity

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The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## Chemical stability

Sensitivity to light

## Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents

Conditions to avoid no information available

Incompatible materials no information available

## Hazardous decomposition products

no information available

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#### SECTION 11. Toxicological information

#### Information on toxicological effects

*Likely route of exposure* Inhalation, Eye contact, Skin contact, Ingestion *Acute oral toxicity* LD50 Mouse: 159 mg/kg (RTECS)

absorption

*Specific target organ systemic toxicity - single exposure* The substance or mixture is not classified as specific target organ toxicant, single exposure.

*Specific target organ systemic toxicity - repeated exposure* The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

#### Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.
ACGIH	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.

## **Further information**

After absorption:

We have no description of any toxic symptoms. This substance should be handled with particular care.

## SECTION 12. Ecological information

## Ecotoxicity

#### No information available.

Persistence and degradability No information available.

## **Bioaccumulative potential**

No information available.

Product number	551600	Version 1.0
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## Mobility in soil

No information available.

## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### SECTION 14. Transport information Land transport (DOT) UN number Proper shipping name Class Class Packing group Environmentally hazardous --

Air transport (IATA)	
UN number	UN 2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Class	6.1
Packing group	III
Environmentally hazardous	
Special precautions for user	no
Sea transport (IMDG)	
UN number	UN 2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Class	6.1
Packing group	111
Environmentally hazardous	
Special precautions for user EmS	yes F-A S-A

## SECTION 15. Regulatory information

## United States of America

## **SARA 313**

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 302

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

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## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

DEA List I Not listed

DEA List II Not listed

#### **US State Regulations**

#### Massachusetts Right To Know

Remarks No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know

*Ingredients* 3,3',4',5,7-Pentahydroxyflavone dihydrate

## New Jersey Right To Know

*Ingredients* 3,3',4',5,7-Pentahydroxyflavone dihydrate

### California Prop 65 Components

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

## Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL:

All components of this product are on the Canadian DSL.

## **SECTION 16. Other information**

### Training advice

Provide adequate information, instruction and training for operators.

## Labeling

Hazard pictograms



*Signal Word* Danger

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Hazard Statements H301 Toxic if swallowed.

# Precautionary Statements

Response P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

## Full text of H-Statements referred to under sections 2 and 3.

H301

Toxic if swallowed.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Date of issue:10/17/2014

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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