

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 30-Sep-2024

**Revision Number** 1

1. Identification	
Product identifier	
Product Name	(S)-Hesperetin 3',7-Diglucuronide
Other means of identification	
Product Code(s)	TRC-H348990-50MG
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	This product is for research and development only
Restrictions on use	Not to be used for human or animal consumption
Details of the supplier of the safety	data sheet
Supplier Address	
VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA	
Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180 Email : Igcusa@Igcgroup.com	
Web : Igcstandards.com	
E-mail	sds-request@lgcgroup.com
Emergency telephone number	
Emergency Telephone For Hazardous Materials or Dangerou Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877	

2. Hazard(s) identification



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

# TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

### **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

The product contains no substances which at their given concentration, are considered to be hazardous to health.

#### **Precautionary Statements - Response**

### Other information

No information available.

### 3. Composition/information on ingredients

Substance

#### Formula

C28H30O18

Chemical name	CAS No.	Weight-%	Trade secret
(S)-Hesperetin 3',7-Diglucuronide	1714994-96-3	100	*

### 4. First-aid measures

#### Description of first aid measures

InhalationRemove to fresh air.Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br/>Consult a physician.



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-H348990-50MG -	(S)-Hesperetin
3',7-Diglucuronide	

Revision date 30-Sep-2024

Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth.
Most important symptoms and effec	ts, 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

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Methods and material for containme	ent 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.



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-H348990-50MG - (S)-Hesperetin

3',7-Diglucuronide

Revision date 30-Sep-2024

7. Handling and storage	
Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, includi	ing any incompatibilities
Storage Conditions	Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### 8. Exposure controls/personal protection

. . . . .

### Control parameters

. . .

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Biological occupational exposure limits**

.

.

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.
Skin and body protection	Wear suitable protective clothing.
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.



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

### TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

Method

Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 9. Physical and chemical properties

Information on basic physical and chemical properties
---

Information on basic physical and o	chemical properties	
Physical state	Solid	
Appearance	Solid	
Color	off-white	
Odor	No information available	
Odor threshold	No information available	
Property	Values	<u>Remarks</u> • M
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang		None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	654.53	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	No information available	



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

# TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

10. Stability and reactivi
----------------------------

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

### 11. Toxicological information

Serious eye damage/eye irritation No information available.

### Information on likely routes of exposure

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.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	No information available.	
Acute toxicity		
Numerical measures of toxicity No information available		
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Skin corrosion/irritation	No information available.	



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

### TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

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



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

# TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

#### **Disposal 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

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
IATA	Not regulated
IMDG	Not regulated

### 15. Regulatory information

### International Inventories

TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
(S)-Hesperetin 3',7-Diglucuronide	1714994-96-3	-	Unknown *

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

# TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

IECSC	Contact supplier for inventory compliance status.
KECI	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### 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

This product does not contain any substances regulated under applicable state right-to-know regulations



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

# TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other info	ormation				
NFPA HMIS	Health hazards Health hazards			Instability 0 Physical hazards 0	Special hazards - Personal protection X
Immo       Treatminized us of the initial and of the safety data sheet         Legend       Section 8: Exposure controls/personal protection         TWA       TWA (time-weighted average)       STEL       STEL (Short Term Exposure Limit)         Ceiling       Maximum limit value       Sk*       Skin designation         Key literature references and sources for data used to compile the SDS       Agency for Toxic Substances and Disease Registry (ATSDR)         U.S. Environmental Protection Agency       ChemView Database         European Food Safety Authority (EFSA)       Environmental Protection Agency         Acute Exposure Guideline Level(s) (AEGL(s))       U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act         U.S. Environmental Protection Agency High Production Volume Chemicals       Food Research Journal         Hazardous Substance Database       International Uniform Chemical Information Database (IUCLID)         Japan GHS Classification       Australia National Institute for Occupational Safety and Health)         National Library of Medicine's ChemID Plus (NLM CIP)       National Library of Medicine's ChemID Plus (NLM CIP)         National Library of Medicine's ChemID Plus (NLM CIP)       National Toxicology Program (NTP)         New Zealand's Chemical Classification and Information Database (CCID)       Weither Schemical Classification and Information Database (CCID)					
	conomic Co-operation an			n Volume Chemicals Progra rmation Data Set	am
HEALTH ACT and	No i n this Safety Data Shee I regulations promulgat	ted thereunder (29	ements of t CFR 1910.	he United States OCCUPA 1200 et. seq.) This docum	

HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-H348990-50MG - (S)-Hesperetin 3',7-Diglucuronide

Revision date 30-Sep-2024

substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

End of Safety Data Sheet