



### 73462 73464 - Butein

Revision Date 12-Sep-2022 Revision Number 2.1

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

Butein		
73462 73464		
DX21215		
2',3,4,4'-Tetrahydroxychalcone		
Recommended use of the chemical and restrictions on 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		
1-800-667-0322		

# 2. HAZARDS IDENTIFICATION

#### **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





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

Appearance Crystalline

Physical state Solid

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

Odor No data available

Other Information Not applicable

#### Unknown acute toxicity

100 % 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

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) **Synonyms** 2',3,4,4'-Tetrahydroxychalcone.

Chemical name	CAS No.	Weight-%
(2E)-1-(2,4-dihydroxyphenyl)-3-(3,4-dihydroxypheny	487-52-5	100
I)-2-propen-1-one		

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

# 4. FIRST AID MEASURES

#### Description of first aid measures

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	Clean mouth with water and drink afterwards plenty of water.



Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

No information available.



# SAFETY DATA SHEET

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Symptoms

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.
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 Impac Sensitivity to Static Discharge	t None. None.
Special protective equipment 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.

Environmental precautionsSee Section 12 for additional Ecological Information.Environmental precautionsSee Section 12 for additional Ecological Information.Methods and material for containmentand cleaning upMethods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick up and transfer to properly labeled containers.Prevention of secondary hazardsClean contaminated objects and areas thoroughly observing environmental regulations.





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	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, includ	ing any incompatibilities	
Storage Conditions	Store in accordance with information listed on the Product 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		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face protection	No special protective equipment required.	
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.	





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**Chemical stability** 

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	
Appearance	Crystalline	
Color	No information available	
Odor	No data available	
Odor threshold	No data available	
Property	Values_	Remarks • Method
bH	No data available	None known
Melting point / freezing point	No data available	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)	Product is not flammable.	
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
/apor pressure	No data available	None known
apor density	No data available	None known
Relative density	No data available	None known
Vater solubility	No data available	None known
Solubility in other solvents	$\sim 0.5$ mg/mL in a 1:1 solution of	
	DMF:PBS (pH 7.2); ~20 mg/mL in	
	EtOH & DMSO; ~25 mg/mL in DM	
Partition coefficient	No data available	None known
utoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
(inematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Dxidizing properties	No information available	
Other Information		
Softening point	No information available	
Molecular weight	272.3	
Aolecular weight Aolecular formula	C15H12O5	
OC Content (%)	No information available	
	No information available	
iquid Density Bulk density	No information available	
	10. STABILITY AND R	EACTIVITY
Reactivity	No information available.	

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Stable under recommended transport or storage conditions.





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Possibility of hazardous reactions None under normal processing. Conditions to avoid None known based on information supplied. Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide.

# **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.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	No information available.	

#### Numerical measures of toxicity

#### Acute toxicity

#### Unknown acute toxicity

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

100 % 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)

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

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

Skin corrosion/irritation	No information available.
Product Information	
Serious eve damage/eve irritation	No information available

#### rious eye damage/eye irritation INO Information availa Product Information





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Respiratory or skin sensitization	No information available.	
Product Information		
Germ cell mutagenicity	No information available.	
Product Information		
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
	Product Information	
STOT - single exposure	No information available.	
	Product Information	
STOT - repeated exposure	No information available.	
	Product Information	
Aspiration hazard RTECS #	No information available. UD5574135	
12. ECOLOGICAL INFORMATION		

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





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# **14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

### **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

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





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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	No
Chronic Health Hazard	No
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 12-Sep-2022

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,





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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**