



## 72882 72884 - Sinomenine (Hydrochloride)

Revision Date 14-Nov-2022 Revision Number 3

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

Product identifier			
Product Name	Sinomenine (Hydrochloride)		
Other means of identification			
Catalog Number	72882 72884		
Document Number	DX21160		
Synonyms	Cocculine; Cucoline; NSC 76021; 9-alpha,13-alpha,14-alpha-Morphinan-6-one,7,8-didehydro-3,7-dimethoxy-4-hydroxy-17-me thyl-,hydrochloride;		
Recommended use of the chemica	al 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 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3





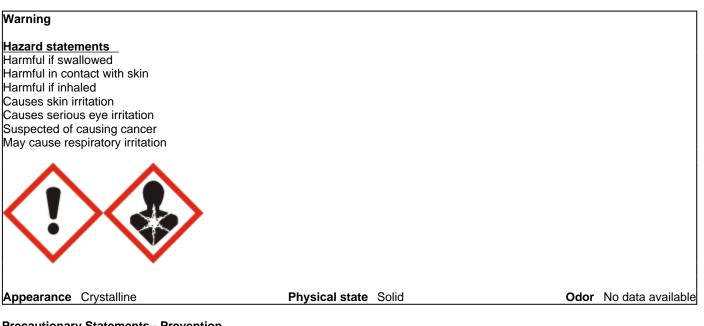
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Hazards not otherwise classified (HNOC)

Not applicable

Label elements



## **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Do not eat, drink or smoke when using this product Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary statements - Response**

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Call a POISON CENTER or doctor if you feel unwell IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth





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#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other Information

Not applicable

#### Unknown acute toxicity

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

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

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

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

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

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

#### Synonyms

Cocculine;. Cucoline;. NSC 76021;.

9-alpha,13-alpha,14-alpha-Morphinan-6-one,7,8-didehydro-3,7-dimethoxy-4-hydroxy-17-me thyl-,hydrochloride;.

Chemical name	CAS No.	Weight-%
(1R,9S,10S)-3-hydroxy-4,12-dimethoxy-17-methyl-1 7-azatetracyclo[7.5.3.01,10.02,7]heptadeca-2(7),3,5		100
,11-tetraen-13-one;hydrochloride		

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

## **4. FIRST AID MEASURES**

#### **Description of first aid measures**

General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation	IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open





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	while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.		
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms persist, call a physician.		
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.		
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	5. FIRE-FIGHTING MEASURES Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Suitable Extinguishing Media Unsuitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the		
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media Specific hazards arising from the	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. No information available.		

# 6. ACCIDENTAL RELEASE MEASURES

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

#### **Personal precautions**

Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required.





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Other Information	Refer to protective measures listed in Sections 7 and 8.		
Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so.		
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.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

# 7. HANDLING AND STORAGE

Precautions for safe handling			
Advice on safe handling	Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not eat, drink or smoke when using this product.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Store locked up. Store in accordance with information listed on the Product Information Sheet (PIS). Keep out of the reach of children.		

# 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	





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Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.		
Hand protection	Impervious gloves. Wear suitable gloves.		
Skin and body protection	Long sleeved clothing. 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.		
General hygiene considerations	Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.		

# 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
pH	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	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	DMF: 30 mg/mL; DMSO: 30 mg/mL; Ethanol: 5 mg/mL; PBS (pH 7.2): 5	





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Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

Other Information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density mg/mL; No data available No information available

No information available 365.9 C19H23NO4 • HCI No information available No information available No information available None known None known None known None known None known

# **10. STABILITY AND REACTIVITY**

Reactivity	No information available.	
Chemical stability	Stable under recommended transport or storage conditions.	
Possibility of hazardous reactions	None under normal processing.	
Hazardous polymerization	Hazardous polymerization does not occur.	
Conditions to avoid	Excessive heat.	
Incompatible materials	Strong oxidizing agents.	

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide. Hydrogen chloride gas. Nitrogen oxides (NOx).

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

# Product Information Inhalation May cause irritation of respiratory tract. Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components). Eye contact Irritating to eyes. Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). Skin contact Causes skin irritation. Specific test data for the substance or mixture is not available. (based on components).





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Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).			
Symptoms related to the physica	I, chemical and toxicological	characteristics		
Symptoms	Redness. May cause redn	Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.		
Numerical measures of toxicity				
Acute toxicity				
The following values are calculat ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist	culated based on chapter 3.1 of the GHS document 500.00 mg/kg 1,100.00 mg/kg /mist) 1.50 mg/l			
Unknown acute toxicity       0 % of the mixture consists of ingredient(s) of unknown toxicity         0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity         0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity         0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)         Product Information				
Dermal LD50 Component Information	4830 µg/kg (Mouse)			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
(1R,9S,10S)-3-hydroxy-4,12-di methoxy-17-methyl-17-azatetra cyclo[7.5.3.01,10.02,7]heptadec a-2(7),3,5,11-tetraen-13-one;hy drochloride 6080-33-7	-	4830 μg/kg (Mouse)	-	

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

Skin corrosion/irritation Product Information	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Irritating to eyes.
Respiratory or skin sensitization Product Information	No information available.
Germ cell mutagenicity	No information available.





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Product Information			
Carcinogenicity	Classification based on data available for ingredients.		
Reproductive toxicity	No information available.		
Product Information			
STOT - single exposure	May cause respiratory irritation.		
	Product Information		
STOT - repeated exposure	No information available.		
	Product Information		
Aspiration hazard RTECS #	No information available. QD2163000		
	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.

# 14. TRANSPORT INFORMATION

Note:

Transport in accordance with local, state, and federal regulations.





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DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	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	Does not comply
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 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





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Acute health hazard	Yes
Chronic Health Hazard	Yes
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 14-Nov-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, 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.





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End of Safety Data Sheet