

**Revision number:** 1 Revision date: 07/06/2018

### **1. IDENTIFICATION**

Product name: Product code:

Product use: **Restrictions on use:** 

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987

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e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com	<b>Responsible department:</b> TCI America Environmental Health Safety and Security +1- 503-286-7624		
2. HAZARD(S) IDENTIFICATION			
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 1] Acute Toxicity - Inhalation [Category 2] Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]		
Signal word:	Danger!		
Hazard Statement(s):	Fatal if swallowed or if inhaled Very toxic to aquatic life Very toxic to aquatic life with long lasting effects		
Pictogram(s) or Symbol(s):			
Precautionary Statement(s): [Prevention]	Do not breathe dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear respiratory protection.		
[Response]	If swallowed: Immediately call a poison center or doctor. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. Collect spillage.		
[Storage]	Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).		
Hazards not otherwise classified:	None.		

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SAFETY DATA SHEET

Strychnine Sulfate Pentahydrate

For laboratory research purposes.

Not for drug or household use.

S0094

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: **Chemical Formula:** 

[HNOC]

Substance Strychnine Sulfate Pentahydrate >97.0%(T) 60491-10-3 766.91(Anh)  $C_{42}H_{44}\mathring{N}_4O_4\cdot H_2SO_4\cdot 5H_2O$ 

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a		
Skin contact:	POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation		
Eve contact:	or rash occurs: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
Eye contact:	Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth.		
Symptoms/effects:			
Acute: Delayed:	No data available No data available		
-			
Indication of any immediate medical attention of any immediate medical attention of a structure attention of the second structure attention of the second structure attention of the second structure attention of a structure attentis attention of a structure attention of a	ention:		
Notes to physician:			
No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.		
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Sulfur oxides Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from		
equipment and emergency procedures:	and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area		
Environmental precautions:	by roping off, etc. Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.		
Methods and materials for containment			
and cleaning up:			
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent		
_	dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.		
	Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including a Storage conditions:	<b>ny incompatibilities</b> Keep container tightly closed. Store in a cool, dark and well-ventilated place.		
otorage conditions.	Store locked up.		
	Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Light-sensitive Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION		
Exposure limits: ACGIH TLV(TWA):	0.15 mg/m <sup>3</sup> (strychnine)		
OSHA PEL(TWA):	0.15 mg/m <sup>3</sup> (strychnine)		
	Follow and industrial angine gring //abaratany practices when handling any abamical lipstell a closed		
	iate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a clo system or local exhaust. Also install safety shower and eye bath.		
	-,		
	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators		
Personal protective equipment Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.		
Personal protective equipment	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators		

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

7.1 TH STOKE / IND STELLION					
Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Very pale yellow Odorless No data available No data available				
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available		
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available		
Solubility(ies): [Water] [Other solvents] Soluble: Slightly soluble: Very slightly soluble: Insoluble:	Soluble (2.9g/100mL) Glycerol Alcohols Chloroform Ether				
10. STABILITY AND REACTIVITY					
Reactivity: Chemical stability: Possibility of hazardous reaction Incompatible materials: Hazardous decomposition produ	Oxidizing agents		roxides		

11. TOXICOLOGICAL INFORMATION

### RTECS Number: WL2550000

Acute Toxicity: orl-hmn LDLo:500 ug/kg		orl-mus LD50:1 mg/kg		
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
<b>Germ cell mutagenicity:</b> No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				

Target organ(s):

No data available

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# 12. ECOLOGICAL INFORMATION

Ecotoxicity:						
Fish:		No data available				
Crustacea:		No data available				
Algae:		No data available				
Persistence / degra Bioaccumulative p Mobility in soil		No data available No data available				
Log Pow:		No data available				
Soil adsorpt	ion (Koc):	No data available				
•	(PaM <sup>3</sup> /mol):	No data available				
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	ONSIDERATIONS					
Disposal of product:		Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.				
		Dispose of as unused product. Do not re-use empty containers.				
Other consideration	Other considerations: Observe all federal, state and local regulations when disposing of the substance.					
14. TRANSPORT	14. TRANSPORT INFORMATION					
DOT (US) UN number: UN1692	<b>Proper Shipping N</b> Strychnine salts	ame:	Class or Division: 6.1 Toxic material.	Packing Group: I		
IATA_ UN number: UN1692	<b>Proper Shipping N</b> Strychnine salts	ame:	Class or Division: 6.1 Toxic material.	Packing Group:		

IMDG UN UN1692 numb

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Proper Shipping Name: Strychnine salts Class or Division: 6.1 Toxic material.

Packing Group:

Marine Pollutant: EmS number: Reportable Quantitiy: Marine Pollutant F-A, S-A 10 pounds (4.54 Kilograms)

# 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

#### US Federal Regulations

CERCLA Hazardo	ous substance	and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	<u>S</u>		
State Right-to-Kr	ow		
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>n</u>		
NFPA Rating:			HMIS Classification:
Health:	4		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
EC-No:		200-477-7	

16. OTHER INFORMATION

#### **Revision date:** 07/06/2018

#### Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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