

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

Revision date 24-Jan-2023

**Revision Number** 1

1. Identification		
Product identifier		
Product Name	21,22-Dihydrostrychnine-d2	
Other means of identification		
Product Code(s)	TRC-D428920-100MG	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	Laboratory use	
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@lgcgroup.com		
Web : Igcstandards.com		
E-mail	sds-request@lgcgroup.com	
Emergency telephone number		
Emergency Telephone For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970		
2 Hazard(c) identification		

## 2. Hazard(s) identification

**Classification** 



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Classified according to OSHA.

Acute toxicity - Oral	Category 1
Acute toxicity - Dermal	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Danger

### Hazard statements

Classified according to OSHA. Fatal if swallowed Fatal in contact with skin Very toxic to aquatic life with long lasting effects



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing

### **Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of water and soap Immediately call a POISON CENTER or doctor Take off immediately all contaminated clothing and wash it before reuse IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant



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Other information No information available.

## 3. Composition/information on ingredients

### Substance

Formula

C21H22D2N2O2

Chemical name	CAS No	Weight-%	Trade secret
21,22-Dihydrostrychnine-d2	-	100	*

## 4. First-aid measures

### Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air.	
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.	
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Ingestion	Get immediate medical advice/attention. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.	
Most important symptoms and effects, 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.



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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 impact 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	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
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.	

## 7. Handling and storage

Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse.
Conditions for safe storage, inclu	iding any incompatibilities
Storage Conditions	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. 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.



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## 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, such as personal protective equipment		
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).	
Hand protection	Wear suitable gloves. Impervious gloves. 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	Impervious clothing. Long sleeved clothing. Chemical resistant apron. 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.	
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.	
General hygiene considerations	Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. 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

Solid
Powder
white
No information available
No information available



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Remarks • Method

None known None known None known None known None known None known

None known None known None known None known None known None known None known None known

Property	Values
рН	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling rang	<b>je</b> No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Other information	
Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	338.4
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available
-	

## 10. Stability and reactivity

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



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Information on likely routes of expo	osure
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. Fatal in contact with skin. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Fatal if swallowed. (based on components).
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 v	vell as chronic effects from short and long-term exposure
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
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.



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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	Very toxic to aquatic life with long lasting effects.		
Persistence and degradability	No information available.		
Bioaccumulation	There is no data for this product.		
Other adverse effects	No information available.		

## 13. Disposal considerations

<b>Disposal methods</b>
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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

-	N number or ID number stended proper shipping name	UN2811 Toxic solids, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H- 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2)
Tra	ansport hazard class(es)	6.1
Pa	cking group	1
Sp	ecial Provisions	IB7, T6, TP33
DC	OT Marine Pollutant	1
Ма	arine pollutant	(4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H-4



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Description	,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2 UN2811, Toxic solids, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2), 6.1, I,
Emergency Response Guide Number	Marine pollutant 154
TDG	
UN number or ID number	UN2811
UN proper shipping name	Toxic solid, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2)
Transport hazard class(es) Packing group	6.1 I
Special Provisions Marine pollutant	16 P
Description	, UN2811, Toxic solid, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2), 6.1, I
MEX	
UN number or ID number	UN2811
UN proper shipping name	Toxic solid, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2)
Transport hazard class(es)	6.1
Packing group Technical Name	I (4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H- ,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2
Description	(4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H-,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2 UN2811, Toxic solid, organic, n.o.s.
	((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2), 6.1, I
Special Provisions	274
ΙΑΤΑ	
UN number or ID number UN proper shipping name	UN2811 Toxic solid, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2)
Transport hazard class(es)	6.1
Packing group Technical Name	I (4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H- ,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2 (4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H-
Description	,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2 UN2811, Toxic solid, organic, n.o.s. ((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2), 6.1, I



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Special Provisions ERG Code	A3, A5 6L
IMDG	Not regulated
UN number or ID number	UN2811
UN proper shipping name	Toxic solid, organic, n.o.s.
	((4S,4aS,4a1R,5aS,8aR,8a1S,15aS)-2,3,4,4a,4a1,5,5a,7,8,8a1,15,15a-Dodecahydro-14H- 4,6-methanoindolo[3,2,1-ij]oxepino[2,3,4-de]pyrrolo[2,3-h]quinolin-14-one-3,4-d2)
Transport hazard class(es)	6.1
Packing group	I
EmS-No	F-A, S-A
Special Provisions	274
Marine pollutant	P
Description	UN2811, Toxic solid, organic, n.o.s., 6.1, I, Marine pollutant

## 15. Regulatory information

### International Inventories

TSCA

Complies under research and development exemption or is regulated by a different government agency.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
21,22-Dihydrostrychnine-d2	-	-	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 EINECS/ELINCS ENCS IECSC KECL BICCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
PICCS AIIC	Contact supplier for inventory compliance status. 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



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### US Federal Regulations

### <u>SARA 313</u>

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

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other i	information				
NFPA	Health hazards 0	Flammabili	<b>ty</b> 0	Instability 0	Special hazards -
HMIS	Health hazards 0	Flammabil	<b>ty</b> 0	Physical hazards 0	Personal protection X
Key or legend	l to abbreviations and acronyr on 8: Exposure controls/perse		fety data	<u>sheet</u>	
Key or legend	I to abbreviations and acronyr on 8: Exposure controls/perso TWA (time-weighted avera	onal protection	<b>ifety data</b> STEL		n Exposure Limit)

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR)



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U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (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 Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND 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 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**