

# Safety Data Sheet Revision Date: 03/05/18

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2 Letter ISO country code/language code: US/EN

#### 1. IDENTIFICATION

Catalog Number / Product Name: Reserpine 1000 pg/ul; LCMS-8030 SN Stock

Company: Shimadzu Scientific Instruments

Address: 7102 Riverwood Drive Columbia, MD 21046

Phone#: 800-477-1227 Fax#: 410-381-1222

**Emergency#:** 1-800-424-9300 (CHEMTREC)

+1 703-741-5970 (Outside the US)

Email: sds@restek.com

Revision Number: 3

**Intended use:** For Laboratory use only

## 2. HAZARD(S)IDENTIFICATION

# **Emergency Overview:**

GHS Hazard Symbols:





GHS Flammable Liquid Category 2

Classification: Serious Eye Damage/Eye Irritation Category 2

Acute Toxicity - Dermal Category 4 Acute Toxicity - Oral Category 4

GHS Signal Danger

Word:

GHS Hazard: Highly flammable liquid and vapour.

Harmful if swallowed or in contact with skin.

Causes serious eye irritation.

**GHS** 

**Precautions:** 

**Safety** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**Precautions:** Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilation and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

First Aid IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Measures:** IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific measures see section 4.

Rinse mouth.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use extinguishing media in section 5 for extinction.

**Storage:** Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container according to section 13 of the SDS.

Single Exposure No data available

Exposure Target Organs:

Repeated

No data available

Exposure Target Organs:

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	EINEC #	% Composition	
acetonitrile	75-05-8	200-835-2	99	
Dichloromethane	75-09-2	200-838-9	1	
reserpine	50-55-5	200-047-9	0	

## 4. FIRST-AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately

**Eyes:** Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often.

Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. Serious harm (damage) may result if treatment is delayed. Continue to flush eyes while awaiting medical

attention

**Skin Contact:** Wash with soap and water. Remove contaminated clothing, launder immediately, and discard

contaminated leather goods. Get medical attention immediately.

**Ingestion:** Do not induce vomiting and seek medical attention immediately. Drink two glasses of water

or milk to dilute. Provide medical care provider with this SDS. Never give anything by mouth

to an unconscious person

# 5. FIRE- FIGHTING MEASURES

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and

keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of

ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and

flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self- contained

breathing apparatus and full protective equipment. Use methods for the

surrounding fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment:** Exposure to the spilled material may be severely irritating or highly toxic.

Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated

based on information provided on this sheet and the special

circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any

occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a

minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## 7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Highly toxic or corrosive material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. Use

spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s)

closed. Keep away from sources of ignition

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name CAS No. IDLH ACGIH STEL ACGIH TLV-TWA OSHA Exposure Limit acetonitrile 75-05-8 500 ppm IDLH None Known 20 ppm TWA 40 ppm TWA; 70 mg/m3 TWA

Dichloromethane 75-09-2 2300 ppm IDLH None Known 50 ppm TWA 25 ppm TWA; 125 ppm STEL (15 min. TWA)

**Personal Protection:** 

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to avoid overexposure.

**Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling this

product. General or local exhaust ventilation is the preferred means of protection.

Use a respirator if general room ventilation is not available or sufficient to

eliminate symptoms.

**Eye Protection:** Wear chemically resistant safety glasses with side shields when handling this

product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash

station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other

protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and

water before eating, drinking, and when leaving work.

Medical Conditions Aggravated By Exposure: Liver disease

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available

Odor: Mild

Physical State:

pH:

Vapor Pressure:

Vapor Density:

No data available
No data available
1.4 (air = 1)

**Boiling Point:** 81.6 °C at 760 mmHg (HSDB)

Melting Point: -43.82 °C Flash Point: 43

Flammability: Highly Flammable

Upper Flammable/Explosive Limit, % in air: 16 Lower Flammable/Explosive Limit, % in air: 4.4

Autoignition Temperature:

Decomposition Temperature:

Specific Gravity:

Evaporation Rate:

No data available deg C

No data available

0.7857 g/cm3 at 20 °C

No data available

Odor Threshold: ND

Solubility: Not determined Partition Coefficient: n-octanol in water: No data available

VOC % by weight: 0

Molecular Weight: No data available

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid:

Mone known.Contamination High temperatures
Strong oxidizing agents Caustics (bases)

## 11. TOXICOLOGICAL INFORMATION

Routes of Entry: **Inhalation Contact Absorption Ingestion** 

Target Organs Potentially Affected By Exposure: Liver, Cardiovascular System, Central nervous

system stimulation, Respiratory Tract

**Chemical Interactions That Change Toxicity:** None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Causes respiratory tract irritation

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Inhalation of high

concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination.

**Skin Contact:** Causes skin irritation.

**Skin Absorption:** Harmful if absorbed through the skin.

Can cause moderate irritation, tearing and reddening, but not likely to **Eye Contact:** 

permanently injure eye tissue. Can cause irritation.

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, Ingestion Irritation:

nausea, vomiting and diarrhea. Ingestion may cause transient irritation of throat,

stomach and gastrointestinal tract.

Harmful if swallowed. May cause systemic poisoning. **Ingestion Toxicity:** 

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a probable or known human carcinogen.

Reproductive and Developmental Toxicity: No data available to indicate product or any components

present at greater than 0.1% may cause birth defects. Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see

"Target Organs)

Skin Absorption: Upon prolonged or repeated exposure, harmful if

absorbed through the skin. May cause severe irritation

and systemic damage

**Component Toxicological Data:** 

NIOSH:

Inhalation:

**Chemical Name** CAS No. LD50/LC50

Methane, dichloro-Inhalation LC50 Rat 53 mg/L 6 h 75-09-2 Acetonitrile 75-05-8 Dermal LD50 Rabbit 390 mg/kg

**Component Carcinogenic Data:** 

OSHA:

**Chemical Name** CAS No.

Methylene chloride 75-09-2 25 ppm TWA (8 hr.); 125 ppm STEL (15 min.); 12.5 ppm Action Level (see 29 CFR

1910.1051); effective date for respiratory protection for certain employers to acheive the 8-hour TWA PEL is August 31, 1998; the start up date to install engineering controls is December 10, 1998.; {OSHA - 29 CFR 1910

Specifically Regulate

ACGIH:

**Chemical Name** CAS No.

A3 - Confirmed Animal Carcinogen with Dichloromethane 75-09-2

Unknown Relevance to Humans Acetonitrile 75-05-8

A4 - Not Classifiable as a Human

Carcinogen

NIOSH:

**Chemical Name** CAS No. Methylene chloride 75-09-2 potential occupational carcinogen

NTP:

**Chemical Name** CAS No.

No data available

IARC:

Chemical Name CAS No. Group No.

Monograph 110 [in preparation]; 75-09-2 Group 2A

Monograph 71 [1999]

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous

to plants and/or wildlife.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No data

Ecological Toxicity Data: No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste. Mixing

spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous

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waste determination on mixtures.

Disposal Methods: Dispose of by incineration following Federal, State, Local,

or Provincial regulations.

Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial

Environmental Regulations.

14. TRANSPORTATION INFORMATION

**United States:** 

**DOT Proper Shipping Name:** Flammable liquids, toxic, n.o.s. (Acetonitrile,

Dichloromethane)

UN Number: UN1992
Hazard Class: 3(6.1)
Packing Group: II

International:

IATA Proper Shipping Name: Flammable liquids, toxic, n.o.s. (Acetonitrile,

Dichloromethane)

UN Number: UN1992 Hazard Class: 3(6.1) Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

 United States:
 Chemical Name
 CAS#
 CERCLA
 SARA 313
 SARA EHS 313
 TSCA

 acetonitrile
 75-05-8
 X
 X
 X

 Dichloromethane
 75-09-2
 X
 X
 X

The following chemicals are listed on CA Prop 65:

Chemical NameCAS #RegulationReserpine50-55-5Prop 65 CancerDichloromethane75-09-2Prop 65 Cancer

Dichloromethane (Methylene chloride)

State Right To Know Listing:

Chemical Name CAS# New Jersey Massachusetts Pennsylvania California

 acetonitrile
 75-05-8
 X
 X
 X
 X
 X

 Dichloromethane
 75-09-2
 X
 X
 X
 X
 X

reserpine 50-55-5

16. OTHER INFORMATION

Prior Version Date: 03/05/18
Other Information: Any changes to the SDS compared to previous versions are marked by a vertical

line in front of the concerned paragraph.

References: No data available

Disclaimer: IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION

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