



SAFETY DATA SHEET

Preparation Date: 7/29/2015 **Revision Date: 12/28/2017** Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: **BR170**

Product Name: BRUCINE SULFATE, HEPTAHYDRATE, REAGENT, ACS

Other means of identification

Brucine sulfate salt hydrate Synonyms:

> Strychnidin-10-one, 2,3-dimethoxy-, sulfate(1:1), heptahydrate 2,3-Dimethoxystrychnidin-10-one sulfate (1:1) heptahydrate

10,11-Dimethoxystrychnine

CAS#: 60583-39-3 RTECS# WL2103350 Not available CI#:

Recommended use of the chemical and restrictions on use

Biological agent. Recommended use: Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Chemtrec 1-800-424-9300 Emergency telephone number Martin LaBenz (West Coast) **Contact Person:** Ibad Tirmiz (East Coast) **Contact Person:**

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 2
Acute toxicity - Inhalation (Gases)	Category 2

Label elements

Danger

Hazard statements Fatal if swallowed Fatal if inhaled

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

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 breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Brucine Sulfate, heptahydrate	60583-39-3	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. WARNING! It may be hazardous to the person providing aid to give

mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is

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required.

Ingestion: Fatal if swallowed. Do not induce vomiting without medical advice. Never give anything by

mouth to an unconscious person. Immediate medical attention is required. Call a physician

or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation

May cause irritation of respiratory tract

Convulsions

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Product code: BR170

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides.

Sulfur Oxides.

Specific hazards: May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid

breathing dust. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep container tightly sealed. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Brucine Sulfate,	60583-39-3	None	None	None	None
heptahydrate					

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Brucine Sulfate, heptahydrate	60583-39-3	None	None	None	None

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Australia and Mexico

Components	CAS-No.	Australia	Mexico
Brucine Sulfate, heptahydrate	60583-39-3	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep

exposure to airborne contaminants below the exposure limit. In case of insufficient ventilation wear suitable

respiratory equipment.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Chemical resistant apron

Long sleeved clothing

Gloves

Respiratory protection: Wear respirator with dust filter. Be sure to use an approved/certified respirator or

equivalent.

Hygiene measures: When using, do not eat, drink or smoke. Avoid contact with skin, eyes and

clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks

and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

White to yellowish. Solid Crystalline powder.

Odor: **Taste** Formula:

No information available. (C23H26N2O4)2.H2SO4.7H2O Bitter.

Molecular/Formula weight: Flammability: Flashpoint (°C/°F): 1013.13 g/mol No information available No information available.

Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

Lower Explosion Limit (%): No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

180°C/356°F (dec) No information available No information available

Boiling point/range(°C/°F): **Bulk density:** Density (g/cm3):

No information available No information available No information available

Vapor pressure @ 20°C (kPa): Specific gravity: pH:

No information available No information available Alkaline/Basic

Evaporation rate:

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No information available Vapor density:

No information available

VOC content (g/L): No information available

Partition coefficient Odor threshold (ppm):

No information available (n-octanol/water): No information available No information available

Viscosity:

Miscibility: Solubility: Soluble in Water No information available

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Hazardous decomposition

products:

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

Other Information

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Brucine Sulfate, heptahydrate

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LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = 15.4 mg/kg intravenous LD50 mouse

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LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available **VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation Fatal if inhaled. Inhalation of dust or powder may cause respiratory tract irritation.

Ingestion Fatal if swallowed. May affect behavior/central nervous system

(convulsions/seizures).

Aspiration hazard No information available.

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

Chronic Toxicity Prolonged or repeated ingestion may affect behavior/central nervous system.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Brucine Sulfate, heptahydrate	60583-39-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

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Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposureSTOT - repeated exposure
No information available.
No information available.

Target Organs: Lungs. Central nervous system. Mucous membrane.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal. State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal Do not re-use empty containers Dispose of as unused product.

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Brucine Sulfate, heptahydrate	60583-39-3	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1544

Proper Shipping Name: Alkaloids, solid, n.o.s.(brucine sulfate)

Hazard Class: 6.1

Subsidiary Class No information available

Packing group:

Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information available

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

Description: UN1544,Alkaloids, solid, n.o.s. ,6.1,PG I

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TDG (Canada)

UN-No: UN1544

Proper Shipping Name: Alkaloid salts, solid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN1544,ALKALOID SALTS, SOLID, N.O.S.,6.1,PG I

ADR

UN-No: UN1544

Proper Shipping Name: Alkaloids, solid, n.o.s.(brucine sulfate)

Hazard Class: 6.1
Packing Group:

Subsidiary Risk: No information available

Description: UN1544 Alkaloids, solid, n.o.s.,6.1,I

IMO / IMDG

UN-No: UN1544

Proper Shipping Name: Alkaloids, solid, n.o.s.(brucine sulfate)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

RID

UN-No: UN1544

Proper Shipping Name: Alkaloids, solid, n.o.s.(brucine sulfate)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN1544 Alkaloids, solid, n.o.s.,6.1,I

ICAO

UN-No: UN1544

Proper Shipping Name: Alkaloid salts, solid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN1544,Alkaloid salts, solid, n.o.s.,6.1,PG I

IATA

UN-No: UN1544

Proper Shipping Name: Alkaloids, solid, n.o.s.(brucine sulfate)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: I ERG Code: 6L

Special Provisions No information available

Description: UN1544,Alkaloids, solid, n.o.s.,6.1,PG I

15. REGULATORY INFORMATION

International Inventories

				(PICCS)			(AICS)	
Brucine Sulfate,	60583-39-3	Not Listed	Not present	Present	Not present	Not present	Not present	Not present
heptahydrate			•			-		

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Brucine Sulfate, heptahydrate	60583-39-3	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Brucine Sulfate, heptahydrate	60583-39-3	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Brucine Sulfate, heptahydrate	60583-39-3	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

Product code: BR170

The classification of this product has not been validated yet

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Brucine Sulfate, heptahydrate	60583-39-3	Not Listed	Not Listed

Components CAS-No. CEPA Schedule I - Toxic Subs	stances
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Product name: BRUCINE SULFATE, HEPTAHYDRATE, REAGENT, ACS

Brucine Sulfate, heptahydrate	60583-39-3	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Brucine Sulfate, heptahydrate	60583-39-3	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Brucine Sulfate, heptahydrate	60583-39-3	No information

EU - CLP (1272/2008)

R-phrase(s)

Not determined

S -phrase(s)

none

Not determined

Components	CAS-No.		Concentration Limits:	Safety Phrases
Brucine Sulfate, heptahydrate	60583-39-3	No information	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T+ - Very toxic.



16. OTHER INFORMATION

Preparation Date: 7/29/2015
Revision Date: 12/28/2017
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: BR170