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# Safety Data Sheet acc. to OSHA HCS

Date of issue: 11/07/2024 Revision date 11/07/2024

### 1 Identification

· Product identifier

· Trade name: <u>Erinacine B</u>
· Other means of identification

· Article number: 40078

· Application of the substance / the mixture

This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· Details of the supplier of the safety data sheet

Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

USA

· Information department: Product safety department

· Emergency telephone number:

During normal opening times: +1 (734) 971-3335

US/CANADA: 800-424-9300

Outside US/CANADA: 703-741-5970

# 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.



GHS07

Acute toxicity - oral 4 H302 Harmful if swallowed.

Acute toxicity - dermal 4 H312 Harmful in contact with skin.

Acute toxicity - inhalation 4 H332 Harmful if inhaled.

Eye irritation 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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Trade name: Erinacine B

### · Hazard pictograms





· Signal word Danger

# · Hazard-determining components of labeling:

Acetonitrile

#### · Hazard statements

H225 Highly flammable liquid and vapor.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Specific treatment (see on this label). P321

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. P337+P313

In case of fire: Use CO2, powder or water spray to extinguish. P370+P378

P403+P235 Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

## Information pertaining to particular dangers for man and environment:

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

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- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.12000

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

Bootipion wixter of the outstanded held below with hermazarded additione.				
· Dangerous components:				
CAS: 75-05-8	Acetonitrile	99.9%		
RTECS: AL7700000				
· Other ingredients				
156101-10-9 Erinaci	ne B	0.1%		

### 4 First-aid measures

- Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

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· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

#### **6 Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** 

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Protective Action Criteria for Chemicals

	1 Total Tota				
· PAC-1:					
75-05-8	Acetonitrile	13 ppm			
· PAC-2:					
75-05-8	Acetonitrile	50 ppm			
· PAC-3:					
75-05-8	Acetonitrile	150 ppm			

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

ПС

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### 8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

#### 75-05-8 Acetonitrile

PEL Long-term value: 70 mg/m³, 40 ppm REL Long-term value: 34 mg/m³, 20 ppm

TLV Long-term value: 20 ppm

Skin, A4

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

#### Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Color: According to product specification

Odor: Ether-like
 Structural Formula C25H36O6
 Molecular Weight 432.6 g/mol

· Storage Buffer

· Odor threshold: Not determined.

• Formulation A Solution in Acetonitrile

Melting point/Melting range:
 Boiling point/Boiling range:
 Flammability:
 Highly flammable.

**Explosion limits:** 

Lower: 4.4 Vol %
Upper: 16 Vol %
Flash point: 2 °C (35.6 °F)
Auto igniting: 525 °C (977 °F)
Decomposition temperature: Not determined.
pH-value: Not determined.

· Viscosity:

· Kinematic: Not determined.

· SOLUBILITY

• **Dynamic at 20 °C (68 °F):** 0.35 mPas

Solubility in / Miscibility with

• Water at 25 °C (77 °F): 1000 g/l

Partition coefficient (n-octanol/water):
Vapor pressure at 20 °C (68 °F):
Vapor pressure at 50 °C (122 °F):
Not determined.
98.64 hPa (74 mm Hg)
330 hPa (247.5 mm Hg)

• **Density at 20 °C (68 °F):** 0.79045 g/cm³ (6.59631 lbs/gal)

Relative density
 Vapor density
 Particle characteristics
 Not determined.
 Not applicable.

· Other information · Appearance:

· Form: Liquid

· Important information on protection of health

and environment, and on safety.

• **Ignition temperature:** Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of

explosive air/vapor mixtures are possible.

· Solvent content:

· VOC content: 0.00 %

0.0 g/l / 0.00 lb/gal

· Solids content: 0.1 %

· Change in condition

· Evaporation rate Not determined.

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## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:				
ATE (Acu	ATE (Acute Toxicity Estimate)				
Oral	LD50	618 mg/kg (mouse)			
Dermal	LD50	1,502 mg/kg (rabbit)			
Inhalative	LC50/4 h	11 mg/l			

75-05-8 A	75-05-8 Acetonitrile			
Oral LD50 617 mg/kg (mouse) (OECD Test Guideline 401)				
Dermal	LD50	1,500 mg/kg (rabbit) (Expert Judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)		
Inhalative	LC50/4 h	6.022 mg/l (mouse) (OECD Test Guideline 403)		

- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

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## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

- · Waste treatment methods
- Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information

· UN-Number

· DOT, IMDG, IATA UN1648

· UN proper shipping name

· DOT, IATA Acetonitrile solution
· IMDG ACETONITRILE solution

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids

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or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10.		(Contd. from page 8
Class Label Class Label Saramable liquids	·Label	3
Packing group DOT, IMDG, IATA  Environmental hazards:  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Transport/Additional information:  DOT Quantity limitations  Con passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  IMDG Limited quantities (LQ) Excepted quantities (EQ)  IATA Remarks:  When sold in quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml  IATA Remarks:  When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: Stowage Category Stowage Code  Not applicable.  Not applicable.	· IMDG, IATA	
Packing group DOT, IMDG, IATA  Environmental hazards:  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Transport/Additional information:  DOT Quantity limitations  Con passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  IMDG Limited quantities (LQ) Excepted quantities (EQ)  IATA Remarks:  When sold in quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 500 ml  IATA Remarks:  When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: Stowage Category Stowage Code  Not applicable.  Not applicable.		
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DOT, IMDG, IATA  Environmental hazards: Not applicable.  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information:  DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  IMDG Limited quantities (LQ) Excepted quantities (EQ)  IATA Remarks: When sold in quantities of less than or equal to 1 mi or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: Stowage Category Stowage Code SW2 Clear of living quarters.	Label	3
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MARPOL73/78 and the IBC Code  Transport/Additional information:  DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  IMDG Limited quantities (LQ) Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml  IATA Remarks: When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: F-E,S-D Stowage Category B SW2 Clear of living quarters.	· Environmental hazards:	Not applicable.
DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  IMDG Limited quantities (LQ) Excepted quantities (EQ)  IL  Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml  IATA Remarks: When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled at Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: F-E,S-D Stowage Category B SW2 Clear of living quarters.		Not applicable.
On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  IMDG Limited quantities (LQ) Excepted quantities (EQ)  IATA Remarks:  When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: Stowage Category B Stowage Code  On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  LH  Code: E2  Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 30 ml Maximum net quantity per inner packaging: 30 ml Maximum n	· Transport/Additional information:	
Limited quantities (LQ)  Excepted quantities (EQ)  Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml  IATA  Remarks:  When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.  Special precautions for user Hazard identification number (Kemler code): 33 EMS Number: F-E,S-D Stowage Category B SW2 Clear of living quarters.		
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Hazard identification number (Kemler code): 33  EMS Number: F-E,S-D  Stowage Category B  Stowage Code SW2 Clear of living quarters.		E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a
· UN "Model Regulation": UN 1648 ACETONITRILE SOLUTION, 3, II	Hazard identification number (Kemler code) EMS Number: Stowage Category	): 33 F-E,S-D B
	· UN "Model Regulation":	UN 1648 ACETONITRILE SOLUTION, 3, II

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

75-05-8 Acetonitrile

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· TSCA (Toxic Substances Control Act):	
75-05-8 Acetonitrile	ACTIVE
· Hazardous Air Pollutants	
75-05-8 Acetonitrile	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
EPA (Environmental Protection Agency)	
75-05-8 Acetonitrile	CBD, D
TLV (Threshold Limit Value)	·
75-05-8 Acetonitrile	A4

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This 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. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. 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, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

- · Contact: -
- Date of preparation 11/07/2024

None of the ingredients is listed.

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, ÉU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

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REL: Recommended Exposure Limit
Flammable liquids 2: Flammable liquids – Category 2
Acute toxicity - oral 4: Acute toxicity – Category 4
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

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