

Page 1/8

Safety Data Sheet acc. to OSHA HCS

Printing date 08/05/2020

Revision date 08/05/2020

1 Identification Product identifier · Trade name: Picrotoxin Svnonvm (1aR,2aR,3S,6R,6aS,8aS,8bR,9R)-hexahydro-2a-hydroxy-8b-methyl-9-(1-methylethenyl)-3,6-methano-8H-1,5,7-trioxacyclopenta[ij]cycloprop[a]azulene-4,8(3H)-dione compd. with (1aR,2aR,3S,6R,6aS,8aS,8bR,9S)-hexahydro-2a-hydroxy-9-(1-hydroxy-1-methylethyl)-8b-met Cocculin NSC 403139 · Article number: 20771 • Application of the substance For research use only - not for human or veterinary use. CAS Number: 124-87-8 · EC number: 204-716-6 · 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 GHS06 Skull and crossbones Acute Tox. 2 H300 Fatal if swallowed. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS06

• Signal word Danger • Hazard statements Fatal if swallowed.

(Contd. on page 2)

⁻ US

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

	(Contd. from page 1)
Precautionary statements	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product. If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/interna	tional regulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
3 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 3 Health = 3	
FIRE 0 Fire = 0	
REACTIVITY 0 Reactivity = 0	
[.] Other hazards	
Results of PBT and vPvB assessment	
• PBT: Not applicable.	
• vPvB: Not applicable.	
3 Composition/information on ingredients	

- · Chemical characterization: Substances
- · CAS No. Description
- 124-87-8 Picrotoxin
- · Identification number(s)
- EC number: 204-716-6

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

(Contd. from page 2)

5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.
- 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.
- Protective Action Criteria for Chemicals
- · PAC-1: 0.024 mg/m³
- **PAC-2:** 0.27 mg/m³
- **PAC-3:** 1.6 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.
- Store in accordance with information listed on the product insert.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits. At this time, the other constituents have no known exposure limits.

(Contd. on page 4)

US

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

(Contd. from page 3)

Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
- 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.

· Breathing equipment: Not required.

· Protection of hands:

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.

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: Not required.

Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Crystelling
Color:	Crystalline Not determined.
Odor:	Characteristic
Structural Formula	C15H18O7 • C15H16O6
Molecular Weight	602.6 g/mol
Odor threshold:	Not determined.
pH-value:	Not applicable.
•	
Change in condition	
Melting point/Melting range:	200–202 °C (392–395.6 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

	(Contd. from page 4
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	1
Water:	Not determined.
· Partition coefficient (n-octar	nol/water): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	~0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2); ~15 mg/ml in EtOH; ~30 mg/ml in DMSO & DMF
 Other information 	No further relevant information available.

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: strrong acids, strong bases, strong oxidizing agents
- · Hazardous decomposition products: carbon oxides

11 Toxicological information

- RTECS Number TJ9100000
- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	15 mg/kg (mouse)
		357 µg/kg (human)
	Intraperitoneal LD50	9,200 µg/kg (mouse)
		1,990 µg/kg (rat)
	Subcutaneous LD50	4,100 µg/kg (mouse)
		2,880 µg/kg (rat)

Primary irritant effect:

· on the skin: No irritant effect.

- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer) Substance is not listed.

• NTP (National Toxicology Program) Substance is not listed.

(Contd. on page 6)

US

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

· OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

(Contd. from page 5)

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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.

UN-Number DOT, IMDG, IATA	UN3462
UN proper shipping name DOT, IATA	Toxins, extracted from living sources, solid, n.c
IMDG	(Picrotoxin) TOXINS, EXTRACTED FROM LIVING SOURCE SOLID, N.O.S. (Picrotoxin)
Transport hazard class(es)	
DOT	
TOXIC 6	
Class	6.1 Toxic substances

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

	(Contd. from page 6
Label	6.1
· IMDG, IATA	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.
Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, of 1 g, with an Excepted Quantity Code of 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 Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (PICROTOXIN), 6.1, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

- Section 355 (extremely hazardous substances): Substance is listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- Chemicals known to cause developmental toxicity: Substance is not listed.

(Contd. on page 8)

US

Printing date 08/05/2020

Revision date 08/05/2020

Trade name: Picrotoxin

 Carcinogenic categories · EPA (Environmental Protection Agency) Substance is not listed. • TLV (Threshold Limit Value established by ACGIH) Substance is not listed. • NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS06 · Signal word Danger · Hazard statements Fatal if swallowed. · Precautionary statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 08/05/2020 / -

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 REL: Recommended Exposure Limit Acute Tox. 2: Acute toxicity - Category 2

(Contd. from page 7)

- · GHS label elements

16 Other information