



Health
Fire
Reactivity
Personal Protection

# Material Safety Data Sheet

## Allethrin MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** Allethrin

**Catalog Codes:** SLA4060

**Synonyms:** Bioallethrin; Necarboxylic acid.

**Contact Information:**

**Sciencelab.com, Inc.**

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: [ScienceLab.com](http://ScienceLab.com)

**CHEMTREC (24HR Emergency Telephone), call:**

1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
584-79-2	Allethrin	100	209-542-4

**Hazard Symbols:** XN N

**Risk Phrases:** 20/22

### Section 3: Hazards Identification

**EMERGENCY OVERVIEW:** Appearance: pale yellow liquid. The toxicological properties of this material have not been fully investigated. May cause eye, skin, and respiratory tract irritation.

**Warning!:** Harmful if inhaled or swallowed. Very toxic to aquatic organisms. May cause allergic skin and respiratory reaction.

**Target Organs:** None.

**Potential Health Effects:**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation. May cause allergic sensitization in certain individuals. Allethrin may cause a skin allergy. If allergy develops, very low future exposure can cause itching and a skin rash.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

**Inhalation:** Harmful if inhaled. May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May cause an allergic response. High exposure may cause dizziness, shaking, irritability, seizures,

and loss of consciousness. Allethrin may cause an asthma-like allergy. Future exposure can cause asthma attacks with shortness of breath, wheezing, cough, and/or chest tightness.

**Chronic:** May cause liver and kidney damage.

#### Section 4: First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

#### Section 5: Fire and Explosion Data

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Flash Point:** Not available.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

#### Section 6: Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

#### Section 7: Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

#### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits:**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Allethrin	none listed	none listed	none listed

**OSHA Vacated PELs:** Allethrin: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment:**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**Section 9: Physical and Chemical Properties**

**Physical State:** Liquid

**Appearance:** pale yellow

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 140 deg C @ 0.1 mm Hg

**Freezing/Melting Point:** 4 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Insoluble.

**Specific Gravity/Density:** 1.010

**Molecular Formula:** C<sub>19</sub>H<sub>26</sub>O<sub>3</sub>

**Molecular Weight:** 302.41

**Section 10: Stability and Reactivity Data**

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported

**Section 11: Toxicological Information**

**RTECS#:**

**CAS#:** 584-79-2: GZ1925000

**LD50/LC50:** CAS# 584-79-2: Inhalation, mouse: LC50 = >2 gm/m<sup>3</sup>; Oral, mouse: LD50 = 370 mg/kg; Oral, rabbit: LD50 = 4290 mg/kg; Oral, rat: LD50 = 685 mg/kg; Skin, rabbit: LD50 = 11332 mg/kg; Skin, rat: LD50 = 2500 mg/kg;

**Carcinogenicity:** CAS# 584-79-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Other Studies:** No data available.

**Section 12: Ecological Information**

**Section 13: Disposal Considerations**

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

**Section 14: Transport Information**

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	NOT REGULATED FOR DOMESTIC TRANSPORT				No information available.
<b>Hazard Class:</b>	NON				
<b>UN Number:</b>	UN0002				
<b>Packing Group:</b>					

**Section 15: Other Regulatory Information**

**US FEDERAL:**

**TSCA:** CAS# 584-79-2 is listed on the TSCA inventory.

**Health & Safety Reporting List:** None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules:** None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b:** None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule:** None of the chemicals in this material have a SNUR under TSCA.

**SARA:**

**CERCLA Hazardous Substances and corresponding RQs:** None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances:** None of the chemicals in this product have a TPQ.

**Section 313:** No chemicals are reportable under Section 313.

**Clean Air Act:** This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE:** CAS# 584-79-2 can be found on the following state right to know lists: New Jersey. California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations:**

**European Labeling in Accordance with EC Directives:**

**Hazard Symbols:** XN N

**Risk Phrases:** R 20/22 Harmful by inhalation and if swallowed. R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:** S 36 Wear suitable protective clothing. S 60 This material and its container must be disposed of as hazardous waste. S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**WGK (Water Danger/Protection):** CAS# 584-79-2: No information available.

**Canada - DSL/NDSL:** CAS# 584-79-2 is listed on Canada's DSL List.

**Canada - WHMIS:** WHMIS: Not available.

**Canadian Ingredient Disclosure List:**

**Exposure Limits:**

## Section 16: Other Information

**Created:** 02/14/2005 10:16 PM

**Last Updated:** 11/01/2010 12:00 PM

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