

Safety Data Sheet

Maxxthor SC

Emergency Phone 1-800-424-9300 (Chemtrec)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Maxxthor SC
Chemical Name: Bifenthrin
Recommended use of the chemical and restrictions on use: Insecticide

Company: Ensystem II, Inc.
Address: 2175 Village Dr., Fayetteville, NC 28304
Daytime Phone: 1-800-398-3772

2. HAZARDS IDENTIFICATION

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200

Acute toxicity - Category 4 - Oral
Acute toxicity - Category 4 - Inhalation (Dusts/Mists)
Carcinogenicity - Category 2
Specific target organ - single exposure - Category 1
Specific target organ toxicity - repeated exposure - Category 1

Label Elements

Hazard pictograms



Signal Word: DANGER!

Hazards

H302 - Harmful if swallowed
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention

P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

Response

P321 - Specific treatment (see supplemental first aid instructions on the label)
P308 + P311 - If exposed or concerned: Call a POISON CONTROL CENTER or doctor
P304 + P340 - If INHALED: Remove person to fresh air and keep comfortable for breathing
P312 - Call a POISON CONTROL CENTER or doctor if you feel unwell
P301 + P312 - IF SWALLOWED: Call a POISON CONTROL CENTER or doctor if you feel unwell
P330 - Rinse mouth

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents / container to an approved waste disposal facility.

Other hazards

No data available

Other Information

Very toxic to aquatic life with long lasting effects

3. COMPOSITION / INFORMATION ON INGREDIENTS

Bifenthrin CAS # 82657-04-3 Weight % - 7.9
Propylene Glycol CAS # 57-55-6

4. FIRST-AID

Description of first-aid measures

General advice: First-Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If the person is not breathing and has no pulse, consider cardiopulmonary resuscitation (CPR); use pocket resuscitation mask, bag valve mask etc., to avoid risk of poisoning rescuer. Consult a physician in all cases.

Eye Contact: Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor immediately for treatment advice.

Skin Contact: Take off Contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor immediately for treatment advice.

Ingestion: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Control Center. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Central nervous system effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Foam. Carbon dioxide (CO²). Dry chemical. Soft stream or water fog only if necessary.

Advice for firefighters

Explosion Data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate and post spill area. Wear appropriate safety clothing, respiratory protection devices and eye/face protection (see Section 8). Evacuate unprotected personnel that are nearby.

Environmental precautions: Keep people and animals away from and upwind of spill or leak. Prevent from entering into soil, ditches, sewers, waterways and /or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleanup:

Small spills: knock down and dilute vapors with water fog or spray. Apply vapor suppression foams until spill can be cleaned up. Use non-sparking tools in cleanup operations. Large spills: Contact Ensystem II, Inc. for cleanup assistance. See Section 13, Disposal considerations, for additional information.

7. HANDLING AND STORAGE

Handling: Use good personal hygiene. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Storage: Keep out of reach of children. Product should be stored in compliance with local regulations. Store in a well ventilated, cool, dry area. Keep away from heat sources. Store in original container.

Incompatible products: None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicators should refer to the product label for personal protection equipment requirements during application.

Component	Regulation	Type of listing	Value/Notation
Propylene glycol 57-55-6	Safe Work Australia Standards for Airborne Contaminants	8 hr TWA vapor and particulates	474 mg/m ³ (150 ppm)
	Safe Work Australia Standards for Airborne Contaminants	8 hr TWA particulates only	10 mg/m ³

These recommendations are for Manufacturing. Applicators should see the product label for proper personal protective equipment.

Engineering measures: Apply technical measures to comply with the occupational exposure limits.

Exposure controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure limits.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required or during emergency conditions, use a NIOSH/MSHA approved respiratory protection.

Hand/Skin Protection: Wear long-sleeved shirt, long pants, socks, protective gloves and shoes

Eye/Face Protection: Chemical proof goggles / face shield

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Beige liquid, Mild odor
pH: 6.7
Flash Point/Range: > 65.5°C/ > 149.9°F Tag Closed Cup
Water solubility: Dispersible in water
Vapor pressure: 15.2 atmospheres at @ 68 °F (20 °C)
Specific Gravity: 1.024 @ 20°C
Bulk Density: 8.53 lb/gal
Flammability (solid, gas): No information available
Flammability limit in Air
 Upper flammability limit: No information available
 Lower flammability limit: No information available
Vapor pressure: No information available
Vapor density: No information available
Density: No information available
Solubility in other solvents: No information available
Partition coefficient: No information available
Autoignition temperature: No information available
Decomposition temperature: No information available

10. STABILITY AND REACTIVITY

Reactivity: None under normal use conditions
Chemical Stability: Stable under normal storage conditions.
Conditions to Avoid: Heat, flames and sparks.
Materials to Avoid: Strong bases.
Hazardous Decomposition Products: Carbon oxides (CO_x), hydrogen chloride, hydrogen fluoride, chlorine, fluorine
Additional Information: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Inhalation LC50/Rat/ 2.895 mg/L 4 hr (rat) Estimated; Oral LD50/Rat/632mg/kg; Dermal LD50/Rabbit/>2000mg/kg
Irritation: Reacts with mucous membranes
Chronic Toxicity: Inhalation, after repeated exposure, various species,

Skin corrosion/irritation

Non-irritating to skin

Serious eye damage/eye irritation

Non-irritating to eye

Sensitization

Non-sensitizing

Information on toxicological effects

Symptoms: large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.

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

Chronic toxicity: Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure

Carcinogenicity: Bifenthrin: weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesions) in male mice.

Neurological effects: Bifenthrin causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure.

No teratogenic effect

No carcinogenic effects

No reproductive toxicity effects

No mutagenic effects

Target organ effects: Bifenthrin: Central Nervous System

Neurological effects: Bifenthrin causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure.

Aspiration hazard: No information available

12. ECOTOXICOLOGICAL INFORMATION

Toxicity

Acute toxicity to fish

LC₅₀, 96 Hour, 0.1 µg/l

Acute toxicity to aquatic crustacea

EC₅₀, 48 Hour, 0.11 µg/l

Acute toxicity to algae/aquatic plants

EC₅₀ 72 Hour 0.822 mg/L

No Observed Effect Level Aquatic (NOEC)

Fish 21d 0.012 µg/l

Crustacea 21d 0.0013 µg/l

Persistence and degradability

Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

Bioaccumulative potential

Bifenthrin: Has a potential for bioaccumulation

Mobility in soil

Bifenthrin: Immobile. Not expected to reach groundwater.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to the label instructions, contact appropriate authorities for guidance.

Contaminated Packaging: Containers must be disposed of in accordance with local, state and federal regulations. Refer to product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT This material is not a hazardous material as defined by U.S. Department of Transportation 49 CFR Parts 100 - 185.

TDG: Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

UN #: UN2191

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

Marine Pollutant: Bifenthrin

Description: UN3802, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9 PG

Classification for SEA transport (IMO-IMDG):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

UN #: UN3082

Hazard Class: 9

Packing group: III

EmS No.: F-A, S-F

Marine pollutant: Bifenthrin

Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9 PG III

Classification for AIR transport (IATA/ICAO):

UN#: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing group: III

Limited quantity: 30 kg G

15. REGULATORY INFORMATION

The information herein is given in good faith, but no warranty, expressed or implied, is made. Consult Ensystem II for further information.

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-#	Weight %	SARA 313 Threshold Values %
Bifenthrin	82657-04-3	7.9	1.0

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute health hazard Yes

Chronic health hazard Yes

Fire hazard No

Sudden release of pressure hazard No

Reactive hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements of the local, regional, or state level pertaining to releases of this material.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution

Signal Word:

16. Other Information

Hazard rating System

NFPA

Health	Fire	Reactivity	Specific Hazard
1	0	0	None

HMIS

Health	Fire	Reactivity	Specific Hazard
2	0	0	Protective Equipment: B

Disclaimer: The information of this SDS is based on the present state of our knowledge. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

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