

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



1. IDENTIFICATION

PRODUCT NAME: Surekill Evolve SC
DESCRIPTION: liquid insecticide
EPA Reg. No. 91234-243-47000

COMPANY IDENTIFICATION:
Neogen Corporation
620 Leshar Place Lansing, MI
48912 USA

2. HAZARD IDENTIFICATION

WARNING

May cause damage to organs through prolonged or repeated exposure (H373)
Very toxic to aquatic life (H400)



HAZARD CLASSIFICATION

Health Hazards
Specific target organ toxicity – repeated exposure

Category
2

Other Hazards
None

Category
-

Environmental Hazards
Hazardous to the aquatic environment, acute

Category
1

HAZARDS NOT REQUIRING CLASSIFICATION

None.

PRECAUTIONARY STATEMENTS

Do not breathe mist/vapors/spray. (P260)
Get medical help if you feel unwell. (P319)
Avoid release to the environment not in accordance with the product label. (P273)
Collect spillage. (P391)
Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Deltamethrin	Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)-	52918-63-5	4.75%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall®: **1-800-498-5743**. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: **1-800-424-9300**.

IF INHALED: 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. Call a poison control center or doctor for further treatment advice.

5. FIREFIGHTING MEASURES

Flash Point: No data available

Fire and Explosion Hazards: Dangerous gases are evolved in the event of a fire.

Extinguishing Medium: Carbon dioxide (CO₂), dry chemical, foam, water.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to nitrogen oxides, hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide.

NFPA Ratings: Health – 1 / Flammability – 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Handling: Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

Storage: Mix as needed. Store in original container in a secured dry storage area. Avoid extremes in temperatures. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking and/or material is spilled on floor or paved surfaces, absorb on sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for disposal. Concentrate is stable at normal storage temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Components	CAS No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m ³ (TWA)		OES BCS*

*OES BCS: International Bayer AG, Crop Science Division "Occupational Exposure Standard"

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators, and other handlers must wear chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber, tightly fitting safety goggles, and wear long-sleeved shirt and long pants and shoes plus socks.

General: Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white suspension	pH:	6-7
Odor:	characteristic	Capillary Viscosity:	no data available
Melting / Freezing Point:	no data available	Solubility:	no data available
Boiling Point / Range:	no data available	Partition Coefficient:	no data available
Flammability:	no data available	Vapor Pressure:	no data available
Flam. Limits (upper/lower):	no data available	Bulk Density:	8.5-9.5 lb/gal
Flash Point (cc):	>230°F (110°C)	Particle Char.:	no data available
Auto-Ignition Temp.:	no data available		
Decomposition Temp.:	no data available		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Freezing.

CHEMICAL STABILITY: Stable under recommended storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents, strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition products expected under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following information is from a substantially similar product:

ORAL TOXICITY (rat LD₅₀): 15,000 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 10,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 1.02 mg/L (4-hour); highest attainable concentration, no deaths

EYE IRRITATION: Minimally irritating (Rabbit)

SKIN IRRITATION: Slight Irritation (Rabbit)

SKIN SENSITIZATION: Non-sensitizing (Guinea Pig)

CARCINOGENICITY:

EPA: Not Likely to be Carcinogenic to Humans

ACGIH: Not Listed

NTP: Not Listed

IARC: 3 (not classifiable as to its carcinogenicity to humans)

OSHA: Not Listed

MUTAGENIC TOXICITY: Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

REPRODUCTIVE TOXICITY: Not known to cause reproductive or birth defects at normal exposure levels.

SPECIFIC TARGET ORGAN EFFECTS – REPEATED EXPOSURE: Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

12. ECOLOGICAL INFORMATION

This product is extremely toxic to fish and other aquatic organisms.

The following information is for the active ingredient, Deltamethrin:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC₅₀): 0.91 µg/L

Bluegill (96-hour LC₅₀): 1.4 µg/L

Daphnia (48-hour LC₅₀): 3.5 µg/L

Algae (96-hour EC₅₀): > 9.1 mg/L

AVIAN TOXICITY

Bobwhite Quail (oral LD₅₀): >4640 mg/kg

Mallard Duck (8-d LD₅₀): >8039 mg/kg

OTHER TOXICITY

Honey Bee (LD₅₀): 79 ng/bee (oral), 51 ng/bee (contact)
(toxic to bees)

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Not regulated

IMDG:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (deltamethrin), 9, PG III, Marine Pollutant

IATA:

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (deltamethrin), 9, PG III, Marine Pollutant

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

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. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fresh water and estuarine fish and invertebrates. To protect the environment, **DO NOT** allow pesticide to enter or run-off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

This pesticide is highly toxic to bees exposed to direct treatment. **DO NOT** apply or allow it to drift to crops or weeds on which bees are foraging the treatment area. **DO NOT** apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment wash-waters or rinsate.

Physical or Chemical Hazards

DO NOT use water-based sprays of Surekill Evolve SC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (acute), Chronic (delayed)

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients

Not listed

CERCLA Reportable Quantity (RQ) –

Not listed

RCRA Code

Not applicable

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Neogen Corporation nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF Neogen Corporation AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF Neogen Corporation OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

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