

# Company Details for “Suspend” Insecticide and Health Hazards of Deltamethrin, *Post Pandemic Company Changes*

## 1. Product Identification

Product Name: Suspend SC Insecticide

Type: Professional-grade, broad-spectrum insecticide

Primary Use: Indoor and outdoor structural pest control (e.g., baseboards, cracks, crevices)

## 2. Company and Manufacturing Structure

### Current Manufacturer / Brand Owner

Envu

Envu is the current owner and distributor of Suspend SC.

The company was formed in **2022** after a corporate separation from Bayer’s environmental science division.

### Original Developer / Legacy Manufacturer

Bayer

Suspend SC was originally developed and marketed under Bayer Environmental Science.

Many Safety Data Sheets (SDS) and regulatory documents still reference Bayer due to this legacy role.

## 3. Active Chemical Component

Chemical Name: Deltamethrin

Chemical Class: Synthetic pyrethroid insecticide

Function: Neurotoxic agent targeting insect nervous systems

## 4. Mechanism of Action (Scientific Overview)

Deltamethrin works by interfering with sodium channels in **nerve cells**. This disrupts normal nerve signaling, leading to paralysis and death in insects.

**This same mechanism can affect mammals, including humans, at sufficient exposure levels, particularly impacting the nervous system.**

## 5. Health Hazards of Deltamethrin

### A. Acute (Short-Term) Exposure Effects

Inhalation

Respiratory irritation

Shortness of breath

Headache or dizziness

Skin Contact

Burning, tingling, or itching sensation (paresthesia)

Skin irritation

Eye Contact

Moderate irritation

Redness, tearing, discomfort

Ingestion

Nausea and vomiting

Abdominal pain

Neurological symptoms in higher exposures

## **B. Neurological Effects**

Because deltamethrin affects nerve signaling, exposure may cause

Tremors

Muscle twitching

Coordination issues

Sensory disturbances (tingling, numbness)

In severe cases: seizures or altered consciousness

## **C. Chronic (Long-Term or Repeated Exposure) Concerns**

Persistent sensory irritation (especially skin and face)

Potential neurotoxicity with repeated exposure

Increased sensitivity to future exposures

Possible exacerbation of pre-existing neurological or respiratory conditions

→ *Permanent disability*

→ *Thyroid issues including cancer noted in women*

## **D. Respiratory and Systemic Reactions**

Some individuals may experience heightened sensitivity, including

Sinus irritation or inflammation

Chest tightness

Fatigue or malaise following exposure

## **E. Environmental and Toxicological Notes**

Highly toxic to aquatic life

Can persist on indoor surfaces for extended periods (residual insecticide)

Designed to remain active after application, increasing duration of potential exposure

## **6. Application Context (Indoor Use)**

Suspend SC is commonly applied

Along baseboards

In cracks and crevices

Around entry points and interior surfaces

It is typically described as

Low odor

Non-staining

Residual (remains active for weeks to months)

## 7. Summary

Suspend SC is a professional insecticide originally developed by Bayer and now marketed by Envu.

Its active ingredient, deltamethrin, is a neurotoxic compound **designed to disrupt nerve function** in pests.

**While effective for pest control, it carries documented risks to human health, particularly involving neurological, respiratory, and skin-related effects.**

Exposure risk increases in indoor environments where the chemical may persist on treated surfaces.

Prepared for informational and review purposes.

Signature: D. Cowdrey.

WW2 Understandings:

IG Farben (IG Farben → Bayer → Envu) was historically associated with chemical manufacturing during World War II. Degesch was involved in the production of Zyklon B.