



**Material Safety Data Sheet**

**SUSPEND® SC INSECTICIDE**

MSDS Number: 102000003167

MSDS Version 2.1

Revision Date: 12/13/2005

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** SUSPEND® SC INSECTICIDE  
**MSDS Number** 102000003167  
**EPA Registration No.** 432-763

Bayer Environmental Science  
 2 T.W. Alexander Drive  
 Research Triangle PK, NC 27709  
 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-800-331-2867

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Deltamethrin	52918-63-5	4.75
1,2-Propanediol	57-55-6	15.20

**SECTION 3. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! Hazard to humans and domestic animals. Harmful if inhaled. Do not breathe vapours or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove and wash contaminated clothing before re-use.

**Physical State** liquid suspension

**Odor** none

**Appearance** white

**Routes of Exposure** Inhalation, Skin contact

**Immediate Effects**

**Skin** Contact with product may result in transient tingling and reddening of the skin.

**Inhalation** Harmful if inhaled. Do not breathe vapours or spray mist.

**SECTION 4. FIRST AID MEASURES**



**Material Safety Data Sheet**

MSDS Number: 102000003167  
MSDS Version 2.1

**SUSPEND® SC INSECTICIDE**

<b>General</b>	Have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Do not induce vomiting or give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.
<b>Inhalation</b>	Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Get medical attention immediately.
<b>Notes to Physician Treatment</b>	Treat symptomatically. Consideration should be given to the possibility that over exposure to materials other than this product may have occurred.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash Point</b>	not applicable
<b>Suitable Extinguishing Media</b>	carbon dioxide (CO2), dry chemical, foam, water
<b>Fire Fighting Instructions</b>	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. Fight fire from upwind position. Keep unnecessary people away, isolate hazard area and deny entry. Dike area to prevent runoff and contamination of water sources. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers with water from the farthest possible distance away. Move containers from fire area if without risk. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Methods for Cleaning Up</b>	Dike area to prevent runoff. Soak up with inert absorbent material. Shovel into suitable container for disposal. Collect and contain contaminated absorbent and dike material for disposal.
<b>Additional Advice</b>	Isolate area. Keep unauthorized people away. Decontaminate tools and equipment following cleanup. Retain and dispose of contaminated wash water.



**Material Safety Data Sheet**

MSDS Number: 102000003167  
MSDS Version 2.1

**SUSPEND® SC INSECTICIDE**

Any disposal practice must be in compliance with all Federal, State/provincial, and local laws and regulations.

**SECTION 7. HANDLING AND STORAGE**

<b>Handling Procedures</b>	Avoid inhalation of vapour or mist. Avoid contact with skin.
<b>Storing Procedures</b>	Store in original container. Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.
<b>Work/Hygienic Procedures</b>	<p>Handle in accordance with good industrial hygiene and safety practice. Recommendations for exposure control/personal protection are intended for the manufacture, formulation and packaging of the product.</p> <p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day or reuse according to manufacturer's directions.</p>
<b>Min/Max Storage Temperatures</b>	no data available

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>General Protection</b>	Train employees in safe use of the product. Eye wash facility and safety shower should be available. Follow all label instructions.			
<b>Engineering Controls</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.			
<b>Eye/Face Protection</b>	Chemical resistant goggles must be worn.			
<b>Hand Protection</b>	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber			
<b>Respiratory Protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industry recommendations.			
<b>Exposure Limits</b>				
Pyrogenic (fumed) amorphous silica	112945-52-5	Z3	TWA	20 millions of particles per cubic foot of air
		Z3	TWA	0.8 mg/m3
		Remarks		The value is calculated from a specified equation using a value of 100%. Lower values



**Material Safety Data Sheet**  
**SUSPEND® SC INSECTICIDE**

MSDS Number: 102000003167  
 MSDS Version 2.1

of % will give higher exposure limits. See regulation for specific equation.

1,2-Propanediol	57-55-6	WEEL	TWA		
		Form of Exposure		Aerosol.	10 mg/m3

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white
<b>Physical State</b>	liquid suspension
<b>Odor</b>	none
<b>pH</b>	6 - 7 (100 %) 6.6 suspension in water
<b>Specific Gravity</b>	1.05 at 20 °C
<b>Density</b>	1.02 - 1.08 g/cm <sup>3</sup> at 20 °C
<b>Boiling Point</b>	no data available
<b>Melting/Freezing Point</b>	no data available
<b>Water Solubility</b>	immiscible
<b>Minimum Ignition Energy</b>	no data available
<b>Viscosity</b>	165 mPa.s at 20 °C

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Incompatibility</b>	strong oxidizing agents strong reducing agents
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of: Carbon monoxide carbon dioxide (CO <sub>2</sub> )
<b>Hazardous Reactions</b>	Will not occur.





**Material Safety Data Sheet**

MSDS Number: 102000003167  
MSDS Version 2.1

**SUSPEND® SC INSECTICIDE**

**Neurotoxicity** Deltamethrin did not cause delayed neurotoxicity in hens. In acute and subchronic neurotoxicity screening studies in hens, neurobehavioral effects (e.g., tremors) were observed without correlating neuropathological changes.

**Mutagenicity** Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo studies.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to Fish** Oncorhynchus mykiss (rainbow trout)  
LC50: 0.00026 mg/l  
Exposure time: 96 h

Bluegill sunfish  
LC50: 0.00017 mg/l  
Exposure time: 96 h

**Acute Toxicity to Aquatic Invertebrates** Eastern Oyster  
LC50: 0.0082 mg/l  
Exposure time: 96 h

Mysidopsis bahia (mysid shrimp)  
LC50: 0.000001 mg/l  
Exposure time: 96 h

**Toxicity to Other Organisms** Bobwhite quail  
LD50: > 2,250 mg/kg

Bobwhite quail  
LC50: > 5,620 ppm  
Dietary concentrations.

Mallard duck  
LC50: 8,039 ppm  
Dietary concentrations.

**Stability in Water** Half Life: 55 - 65 h  
pH: 9.0

**Bioaccumulation** Bluegill sunfish BCF: 189 - 3,930



**Material Safety Data Sheet**

MSDS Number: 102000003167  
MSDS Version 2.1

**SUSPEND® SC INSECTICIDE**

**Environmental Precautions**

Extremely toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

Do not contaminate water, food, or feed by disposal.

Pesticide wastes may be toxic. Refer to the product label for other disposal instructions. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal**

Triple rinse containers. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14. TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Not DOT regulated

NOTE: For transport purposes (49 CFR Part 173.132), the calculated 1-Hour LC50 (Rat) is: 4.08 mg/l.

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-763

**US Federal Regulations**

**TSCA list**

1,2-Propanediol 57-55-6

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

**US States Regulatory Reporting**

**CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.



**Material Safety Data Sheet**

**SUSPEND® SC INSECTICIDE**

MSDS Number: 102000003167  
MSDS Version 2.1

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

1,2-Propanediol 57-55-6 MN, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

1,2-Propanediol 57-55-6

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Deltamethrin 52918-63-5

1,2-Propanediol 57-55-6

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 0 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New number due to change in computer systems; updated Section 14: Transportation; removed Product Use statement.

Revision Date: 12/13/2005

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.