



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



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General	Have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	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.
Skin	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.
Ingestion	Do not induce vomiting or give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.
Inhalation	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.
Notes to Physician Treatment	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

Flash Point	not applicable
Suitable Extinguishing Media	carbon dioxide (CO2), dry chemical, foam, water
Fire Fighting Instructions	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

Methods for Cleaning Up	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.
Additional Advice	Isolate area. Keep unauthorized people away. Decontaminate tools and equipment following cleanup. Retain and dispose of contaminated wash water.



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

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Avoid inhalation of vapour or mist. Avoid contact with skin.
Storing Procedures	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.
Work/Hygienic Procedures	<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>
Min/Max Storage Temperatures	no data available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	Train employees in safe use of the product. Eye wash facility and safety shower should be available. Follow all label instructions.			
Engineering Controls	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.			
Eye/Face Protection	Chemical resistant goggles must be worn.			
Hand Protection	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber			
Respiratory Protection	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.			
Exposure Limits				
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



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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

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

SECTION 10. STABILITY AND REACTIVITY

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



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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



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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

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