

Material Safety Data Sheet

SUSPEND® SC INSECTICIDE SDS

MSDS Version: 2.3

Revision Date: 06/06/2012

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name

SUSPEND® SC INSECTICIDE

MSDS Number

102000003167

Product code (UVP)

05946468

EPA Registration No.

432-763

Product Use

Insecticide

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. HAZARDS IDENTIFICATION

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

Emergency Overview

Caution! 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

Exposure routes

Inhalation, Skin contact, Eye contact, Ingestion

Immediate Effects

Eye

May cause eye irritation. Avoid contact with eyes.

Skin

Contact with product may result in transient tingling and reddening of the skin. Avoid contact with skin and clothing.

Ingestion

Do not take internally.

Inhalation

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

Chronic or Delayed Long-Term

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

Potential Environmental Effect

Extremely toxic to fish and aquatic invertebrates. Highly toxic to bees.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Deltamethrin	52918-63-5	4.75
1,2-Propanediol	57-55-6	15.20
Nonylphenol ethoxylate, branched	127087-87-0	2.85

SECTION 4. FIRST AID MEASURES

General

When possible, 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 physician or poison control center immediately.

Skin

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation

Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Notes to physician

Treatment

Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point

no data available

Autoignition temperature

no data available

Lower Flammability Limit

not applicable

Upper Flammability Limit

not applicable

Explosiveness

no data available

Suitable extinguishing media

Carbon dioxide (CO₂), Dry chemical, Foam, Water

Fire Fighting Instructions

Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Decontaminate tools and equipment following cleanup. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice

Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling procedures

Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Keep away from heat and sources of ignition.

Storing Procedures

Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Protect from freezing.

Work/Hygienic Procedures

Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

Eye wash facility and safety shower should be available. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry. Follow all label instructions. Train employees in safe use of the product.

Eye/Face Protection

Tightly fitting safety goggles

Hand protection

Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

Body Protection

Wear long-sleeved shirt and long pants and shoes plus socks.

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

Deltamethrin	52918-63-5	OES BCS*	TWA	0.02 mg/m ³				
Silicon dioxide	7631-86-9	NIOSH	REL	6 mg/m ³				
1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m ³				
		TX	ESL	ST	ESL	50 ug/m ³		
		TX	ESL	ST	ESL	1000 ug/m ³		
		TX	ESL	AN	ESL	5 ug/m ³		
		TX	ESL	AN	ESL	100 ug/m ³		
		TX	ESL	ST	ESL	500 ppb		
		TX	ESL	AN	ESL	50 ppb		
		Nonylphenol ethoxylate, branched						
		127087-87-0	TX	ESL	ST	ESL		600 ug/m ³
		TX	ESL	AN	ESL	60 ug/m ³		

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

white

Physical State

liquid suspension

Odor

none

pH

<= 7.0 (100 %)

Vapor Pressure

no data available

Density

ca. 1.05 g/cm³ at 20 °C

Evaporation rate

no data available

Boiling Point

no data available

Melting / Freezing Point

no data available

Water solubility

immiscible

Minimum Ignition Energy

no data available

Decomposition temperature

no data available

Partition coefficient: noctanol/water

no data available

Viscosity

1,300 – 1,800 cps

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid

freezing

Incompatibility

Strong oxidizing agents

Strong reducing agents

Hazardous Decomposition Products

Thermal decomposition can lead to release of:

Carbon monoxide, Carbon dioxide (CO₂)

Hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

Chemical Stability

Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, deltamethrin. The non-acute information pertains to the technical-grade active ingredient.

Acute oral toxicity

rat: LD50: > 15,000 mg/kg

Acute dermal toxicity

rabbit: LD50: > 10,000 mg/kg

Acute inhalation toxicity

rat: LC50: > 1.02 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

Highest attainable concentration.

No deaths

rat: LC50: > 4.08 mg/l

Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

Skin irritation

rabbit: Slight irritation

Eye irritation

rabbit: Minimally irritating.

Sensitisation

guinea pig: Non-sensitizing.

Chronic toxicity

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.

Assessment Carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.

OSHA

None.

IARC

Deltamethrin 52918-63-5 Overall evaluation: 3

Reproductive toxicity

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

Developmental Toxicity

Deltamethrin caused developmental toxicity only at doses toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

Mutagenicity

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish

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

Lepomis macrochirus (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

Stability in water

Half life: 55 – 65 h
pH: 9.0

Bioaccumulation

Lepomis macrochirus (Bluegill sunfish) BCF: 189 – 3,930

Environmental precautions

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 surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. 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. Add washings to sprayer at time of filling. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14. TRANSPORT INFORMATION

49CFR

Not dangerous goods / not hazardous material

IMDG

UN-Number 3082
Class 9
Packaging group III
Marine pollutant YES
Description of the goods ENVIRONMENTALLY HAZARDOUSSUBSTANCE, LIQUID, N.O.S.
(DELTAMETHRIN SOLUTION)

IATA

UN-Number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES
Description of the goods ENVIRONMENTALLY HAZARDOUSSUBSTANCE, LIQUID, N.O.S.
(DELTAMETHRIN SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THANPOISON

SECTION 15. REGULATORY INFORMATION

EPA Registration No.
432-763

US Federal Regulations

TSCA list

1,2-Propanediol 57-55-6
Nonylphenol ethoxylate, branched 127087-87-0

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40CFR 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. :=

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
Nonylphenol ethoxylate, branched 127087-87-0

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 – 2 Flammability – 1 Instability – 0 Others – none

HMS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health – 2 Flammability – 1 Physical Hazard – 0 PPE -

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

Reason for Revision: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 9: Physical and Chemical Properties.

Revision Date: 06/06/2012

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