

# Material Safety Data Sheet SYNAPSE™ WG INSECTICIDE

MSDS Number: 102000011376 MSDS Version 1.2 Revision Date: 06/23/2008

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name SYNAPSE™ WG INSECTICIDE

**MSDS Number** 102000011376 **EPA Registration No.** 264-1026

Bayer CropScience 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: 1-866-99BAYER (1-866-992-2937)

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

Hazardous Component Name	CAS-No.	Average % by Weight
Flubendiamide	272451-65-7	24.00
Dibutyl naphthalenesulfonic acid, sodium salt	25417-20-3	2.00

### **SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation.

Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water

after handling.

Physical State water-dispersible granules

**Odor** weak characteristic

**Appearance** brown

Routes of Exposure Ingestion, Skin Absorption, Eye contact

**Immediate Effects** 

**Eye** Moderate eye irritation. Avoid contact with eyes.

**Skin** Harmful if absorbed through skin. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

**Chronic or Delayed** 

Long-Term

This product or its components may have target organ effects.



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**Potential Environmental** 

**Effect** 

Toxic to aquatic invertebrates.

### **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** There is no specific antidote. Appropriate supportive and symptomatic treatment

as indicated by the patient's condition is recommended.

### **SECTION 5. FIRE FIGHTING MEASURES**

Fire and Explosion

**Hazards** 

In the event of fire the following can be released:

Hydrogen cyanide (hydrocyanic acid)

Hydrogen fluoride (HF) Carbon monoxide (CO) Nitrogen oxides (NOx)

Sulphur oxides

**Suitable Extinguishing** 

Media

Water spray, Carbon dioxide (CO2), Foam, Sand

Fire Fighting Instructions

Contain the spread of the fire-fighting media. Do not allow run-off from fire

fighting to enter drains or water courses.

In the event of fire and/or explosion do not breathe fumes. In the event of fire,

wear self-contained breathing apparatus.



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### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Remove all sources of ignition. Keep unauthorized people away. Isolate hazard

area. Avoid contact with spilled product or contaminated surfaces.

Methods for Cleaning Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable

container for disposal. 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** Use only in area provided with appropriate exhaust ventilation.

Keep away from heat and sources of ignition. Dust may form explosive mixtures

with air.

**Storing Procedures** Store in a cool, dry place and in such a manner as to prevent cross

contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Keep away from food, drink and animal feedingstuffs.

Work/Hygienic Procedures

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.

Min/Max Storage Temperatures Recommended maximum transport/storage temperature: 38 °C / 100 °F The 30-day storage temperature average must not exceed the recommended

maximum.

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

**General Protection** Follow all label instructions. Train employees in safe use of the product.

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.



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**Eye/Face Protection** Safety glasses with side-shields

Hand Protection Chemical resistant nitrile rubber gloves

**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** 

Flubendiamide 272451-65-7 OES BCS\* 0.5 mg/m3
Kaolin 1332-58-7 ACGIH TWA 2 mg/m3

 NIOSH
 REL
 5 mg/m3

 NIOSH
 REL
 10 mg/m3

 US CA OEL
 TWA PEL
 2 mg/m3

 TX ESL
 ST ESL
 20 ug/m3

 TX ESL
 AN ESL
 2 ug/m3

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** brown

Physical State water-dispersible granules

**Odor** weak characteristic

**pH** 8 - 10 (1 %) at 23 °C

Water solubility dispersible

### **SECTION 10. STABILITY AND REACTIVITY**

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed

instructions.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredient, flubendiamide.

Acute Oral Toxicity female rat: LD50: > 2,000 mg/kg

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"



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rat: LD50: > 2,000 mg/kg **Acute Dermal Toxicity** 

**Skin Irritation** rabbit: No skin irritation.

**Eye Irritation** rabbit: Minimally irritating.

Sensitization guinea pig: Non-sensitizing.

**Chronic Toxicity** Flubendiamide caused liver and/or thyroid effects in chronic studies in rats and

### **Assessment Carcinogenicity**

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

**ACGIH** 

None.

**NTP** 

None.

**IARC** 

None.

**OSHA** None.

Reproductive &

REPRODUCTION: Flubendiamide was not a primary reproductive toxicant in a **Developmental Toxicity** 

two-generation reproduction study in rats. Reproductive effects were observed

only at doses that caused systemic toxicity in parental animals.

DEVELOPMENTAL TOXICITY: Flubendiamide was not a developmental

toxicant in rats and rabbits.

**Neurotoxicity** Flubendiamide was not a neurotoxicant in acute and developmental neurotoxicity

screening studies in rats.

Mutagenicity Flubendiamide was not genotoxic in a battery of in vitro and in vivo tests.

#### SECTION 12. ECOLOGICAL INFORMATION

Water flea (Daphnia magna) **Acute Toxicity to Aquatic** 

**Invertebrates** EC50: > 0.0063 mg/l

Exposure time: 48 h

**Environmental** 

Do not apply directly to water, to areas where surface water is present or to **Precautions** 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. Apply this product as specified on the label. Do not apply when

weather conditions favor runoff or drift.



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### **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.

**Container Disposal** 

Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

### **SECTION 14. TRANSPORT INFORMATION**

DOT CLASSIFICATION:

Not regulated for any mode of transportation in the US

IMDG CLASSIFICATION:

UN3077, Environmentally Hazardous Substances, Solid, N.O.S.(Flubendiamid), 9, PG III, Marine Pollutant

FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison

### **SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 264-1026

### **US Federal Regulations**

**TSCA list** 

Dibutyl naphthalenesulfonic acid, sodium salt 25417-20-3

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.

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

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

None.

#### Canadian Regulations

### **Canadian Domestic Substance List**

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Environmental

**CERCLA** 

None.

**Clean Water Section 307 Priority Pollutants** 

None

Safe Drinking Water Act Maximum Contaminant Levels

None.

### **SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

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

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

Reason to Revise: Section 8: Exposure Limits

Revision Date: 06/23/2008

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