



Safety Data Sheet

Issue Date: 11/11/15

Revision Date: N/a

Version: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Name: Systec 1998 WDG

Other means of identification

EPA Pesticide Registration Number: 48234-13

Recommended use of the chemical and restrictions on use

Recommended use: EPA Registered pesticide.

Details of the supplier of the safety data sheet

Company Address:

Regal Chemical Company

600 Branch Dr.,

Alpharetta, GA 30004

Emergency telephone number

Company Telephone: (770) 475-4837

Emergency Telephone: CHEMTREC 1-800-262-8200

2. Hazardous Identification

EMERGENCY OVERVIEW: This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance: White solid granule

Physical State: Solid

Odor: No appreciable odor

Classification:

Acute Toxicity – Inhalation (Dusts/Mists)	Category 4
Skin Sensitization	Category 1
Germ cell mutagenicity	Category 2

Signal Word: Warning

Hazard statements:

Harmful if inhaled

May cause an allergic skin reaction

Suspected of causing genetic defects



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Precautionary Statements – Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements – Response

If exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary Statements – Storage

Store locked up

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Chemical Name	CAS No	Weight-%
Thiophanate-methyl	23564-05-8	82.45-87.55

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.



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4. First Aid Measures

First aid measures:

General Advice: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. If exposed or concerned: Get medical advice/attention.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment or advice.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation: Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Call a poison control center or doctor for further treatment advice.

Ingestion: Immediately call a poison center or doctor/physician. Do not induce vomiting, unless directed by medical personnel. Never give anything by mouth to an unconscious person. If conscious give 2 glasses of water to dilute.

Most Important systems and effects:

Symptoms: May cause moderate eye irritation. May cause brief and/or minor skin irritation. Harmful if inhaled. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed:

Note to physicians: Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media: Foam. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Sand/earth.

Unsuitable extinguishing media: Use of water should be avoided if possible.

Specific hazards arising from the chemical: Not determined

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.



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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Avoid creating dust.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 12: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for clean up: Vacuum or sweep up material and place in a disposal container. Wash area with soap and water. Pick up wash liquid with inert absorbent and place in a chemical waste container for disposal.

7. Handling and Storage

Precautions for safe handling:

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Use only with adequate ventilation. Do not eat, drink, smoke, or apply cosmetics while handling this product. Do not breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Keep/store only in original container. Store at ambient conditions. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Store locked up.

Packaging Materials: Do not reuse container.

Incompatible Materials: Strong oxidizers.

8. Exposure Controls/Personal Protection

Exposure Guidelines: The following information is given as general advice.

Appropriate engineering controls:

Engineering Controls: THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE, CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS



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PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON FARM APPLICATIONS OF END USE PRODUCTS CONTAINING THIS MATERIAL, CONSULT THE SDS OR PRODUCT LABEL FOR THE END USE PRODUCT.

Individual protection measures, such as personal protective equipment

Eye/Face protection: Wear safety glasses with side shields (or goggles). Goggles are recommended.

Skin and body protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear long-sleeved shirt, long pants, and shoes plus socks. Use chemical resistant gloves, such as P.V.C., butyl-rubber, nitrile-rubber, or neoprene.

Respiratory Protection: NIOSH-approved respirator or mask in absence of adequate ventilation.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Solid

Appearance: Whitish solid granule

Color: Whitish

Odor: No appreciable odor

Odor Threshold: Not determined.

Property

Values

pH

Not determined

Melting point / Freezing Point

Not determined

Boiling Point / Boiling Range

Not applicable

Flash Point

Not applicable

Evaporation Rate

Not determined

Flammability (solid, gas)

Not determined

Upper flammability Limits

Not applicable

Lower flammability Limits

Not applicable

Vapor Pressure

Not applicable

Vapor Density

Not determined

Specific Gravity

Not determined

Water Solubility

Not determined

Partition Coefficient

Not determined

Autoignition Temperature

Not determined

Decomposition Temperature

Not determined

Oxidizing Properties

Not determined

Bulk Density

36.8 lb/cu. Ft.



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10. Stability and Reactivity

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: Keep out of reach of children.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: None known based on information supplied.

11. Toxicological Information

Information on likely routes of exposure

Product Information

Inhalation: Harmful if inhaled.

Eye Contact: Avoid contact with eyes.

Skin Contact: Avoid contact with skin.

Ingestion: Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Thiophanate-methyl 23564-05-8	= 6640 mg/kg (Rat)	>10 g/kg (Rat) > 10 g/kg (Rabbit)	= 1700 mg/m ³ (Rat) 4 h

Information on physical, chemical, and toxicological effects

Symptoms: Please see Section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity – Product Information: Not determined



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12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects. 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

Component Information:

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Thiophanate-methyl 23564-05-8		7.8: 48 h Oncorhynchus mykiss mg/L LC50		

Persistence and degradability: Not determined.

Bioaccumulation: Not determined.

Other adverse effects: Not determined.

13. Disposal Considerations

Waste treatment methods

Disposal of wastes: Pesticide wastes are toxic. 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 of the nearest EPA Regional Office for guidance.

Contaminated packaging: Triple rinse empty container, then offer for recycling, reconditioning or disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number:

Chemical Name	RCRA	RCRA-Basis for Listing	RCRA – D Series Wastes	RCRA – U Series Wastes
Thiophanate-methyl 23564-05-8	U409			U409

14. Transport Information

Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. For D.O.T. product is “Not regulated” when in packages <11.8 lb.

DOT

UN/ID No: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Thiophanate-methyl)

Hazard Class: 9

Packaging Group: III



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Reportable Quantity (RQ): Packaging > = 11.8 lbs.

IATA: Not regulated

IMDG:

Marine Pollutant: This material may meet the definition of a marine pollutant.

15. Regulatory Information

International Inventories

TSCA : All ingredients are listed or exempt from listing on Chemical Substance Inventory.

Legend:

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313-Threshold Values %
Thiophanate-methyl 23564-05-8	23564-05-8	82.45-87.55	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Thiophanate-methyl 23564-05-8	10 lb.		RQ 10 lb. final RQ RQ 4.54 kg final RQ

US State Regulations

California Proposition 65: This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Thiophanate-methyl - 23564-05-8	Female Reproductive Male Reproductive

US State Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Thiophanate-methyl 23564-05-8	X		



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16. Other Information

EPA Pesticide Registration Number: 48234-13

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label:

Signal Word: Caution

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Warning
Acute toxicity – Dermal	Harmful if absorbed through skin	n/a
Acute toxicity – Inhalation (Dusts/Mists)	n/a	Harmful if inhaled
Serious eye damage/eye irritation	Causes moderate eye irritation	n/a
Skin sensitization	n/a	May cause an allergic skin reaction
Germ cell mutagenicity	n/a	Suspected of causing genetic defects

NFPA:

Health Hazards: 1

Flammability: 0

Instability: 0

Special Hazards: Not determined

HMIS

Health hazards: 1

Flammability: 0

Physical hazards: 0

Personal protection: Not determined

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