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**In Case of Emergency, Call
1-800-327-8633 (FAST MED)**

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MSDS prepared by:
Department of Regulatory & Biology Assessment
Syngenta Canada Inc.

For further information contact:
1-87-SYNGENTA (1-877-964-3682)

SECTION – 1: PRODUCT IDENTIFICATION

Product Identifier: RIDOMIL GOLD® BRAVO® Twin-Pak FUNGICIDE Formulation No.: N/A
Registration Number: 26443 (Pest Control Products Act)
Chemical Classes: Chlorinated benzonitrile and phenylamide fungicides.

Product Name: BRAVO® 500 Formulation No.: A7867K
Registration Number: 15723 (Pest Control Products Act)
Active Ingredient (%): Chlorothalonil (40.4 %) CAS No.: 1897-45-6
Chemical Name: Tetrachloroisophthalonitrile

Product Name: RIDOMIL GOLD® 480EC Formulation No.: A9408E
Registration Number: 25384 (Pest Control Products Act)
Active Ingredient(%): Metalaxyl-M (47.6 %) CAS No.: 70630-17-0
{Metalaxyl-M is the active isomer of metalaxyl.}
Chemical Name: Methyl *N*-(2,6-dimethylphenyl)-*N*-(methoxyacetyl)-D-alaninate

Product Use: RIDOMIL GOLD BRAVO is twin-pack containing two fungicides for control of fungal diseases in potatoes. For further details please refer to individual product labels.

SECTION – 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS†
Amorphous Silica (CAS # 112926-00-8)	80 mg/m ³ / %SiO ₂ TWA (total dust)	10 mg/m ³ TWA (respirable dust)	6 mg/m ³ TWA **	IARC Group 3	Not Established
Propylene Glycol (CAS No. 57-55-6)	Not Established	Not Established	10 mg/m ³ TWA AIHA WEEL ****	No	Yes
Gamma- Butyrolactone (CAS # 96-48-0)	Not Established	Not Established	Not Established	IARC Group 3	Yes
Chlorothalonil (40.4 %)	Not Established	Not Established	0.1 mg/m ³ TWA (possible skin and respiratory sensitizer) ***	IARC Group 2B	Not Established
Metalaxyl-M (47.6 %)	Not Established	Not Established	10 mg/m ³ TWA***	No	Not Established

- ** Recommended by NIOSH
- *** Syngenta Occupational Exposure Limit (OEL)
- **** Recommended by AIHA (American Industrial Hygiene Association)
- † Material listed in Ingredient Disclosure List under Hazardous Products Act.

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION – 3: HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

BRAVO 500: A severe eye irritant. May cause skin irritation, prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Overexposure to spray mist may cause respiratory tract irritation and possible respiratory sensitization.

RIDOMIL GOLD 480EC: Harmful if swallowed Causes eye irritation.

Hazardous Decomposition Products

BRAVO 500: Can decompose at high temperatures and form toxic gases.

RIDOMIL GOLD 480EC: Can decompose at high temperatures and form toxic gases.

Physical Properties

BRAVO 500:

Appearance: Light gray viscous suspension.

Odour: Slight.

RIDOMIL GOLD 480EC:

Appearance: Amber liquid.

Odour: Sweet wax-like.

Unusual Fire, Explosion and Reactivity Hazards

BRAVO 500: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

RIDOMIL GOLD 480EC: Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Potential Health Effects

Relevant routes of exposure:

BRAVO 500: Skin, eyes, mouth, lungs.

RIDOMIL GOLD 480EC: Skin, eyes, mouth, lungs.

SECTION – 4: FIRST AID MEASURES

IF POISONING IS SUSPECTED, immediately contact the poison information centre, doctor or nearest hospital. Have the product container, label or Material Safety Data Sheet with you when calling Syngenta, a poison control center or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Call the Syngenta Emergency Line [**1-800-327-8633 (1-800-FASTMED)**], for further information.

EYE CONTACT: Flush eyes with clean water, holding eyelids apart for a minimum of 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta, a poison control center or doctor for treatment advice. Obtain medical attention immediately if irritation persists.

SKIN CONTACT: Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Flush skin with running water for a minimum of 20 minutes. Obtain medical attention if irritation occurs.

INHALATION: Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call Syngenta, a poison control centre or doctor for treatment advice.

INGESTION: If swallowed, immediately contact Syngenta, a poison control centre, doctor or nearest hospital for treatment advice. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus

NOTES TO PHYSICIAN:

Contact with eyes may require specialized ophthalmologic attention. There is no specific antidote if this product is ingested. Treat symptomatically.

Persons suffering with temporary allergic skin reactions may respond to treatment with oral antihistamines and topical or oral steroids.

MEDICAL CONDITIONS KNOWN TO BE AGGRAVATED:

Asthma or other respiratory conditions may be aggravated by chemical irritants.

SECTION – 5: FIRE FIGHTING MEASURES

BRAVO 500:

Flash point and method: Not applicable.

Upper and lower flammable (explosive) limits in air: Not applicable.

Auto-ignition temperature: Not applicable.

Flammability: Not flammable.

Hazardous combustion products: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Conditions under which flammability could occur: Keep fire exposed containers cool by spraying with water.

Extinguishing media: Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist, (avoid use of water jet). Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

Sensitivity to explosion by mechanical impact: None known.

Sensitivity to explosion by static discharge: None known.

RIDOMIL GOLD 480EC:

Flash point and method: 87.2 °C (Setaflash CC).

Upper and lower flammable (explosive) limits in air: Not Applicable

Auto-ignition temperature: Not Available.

Flammability: Combustible liquid (Class IIIA)

Hazardous combustion products: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion including oxides of carbon and nitrogen.

Conditions under which flammability could occur: Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. Keep fire exposed containers cool by spraying with water.

Extinguishing media: Use water fog or mist, (avoid use of water jet), foam, carbon dioxide, dry powder or halon extinguishant. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

Sensitivity to explosion by mechanical impact: No.

Sensitivity to explosion by static discharge: No.

SECTION – 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation and wear equipment and clothing as described in Section 8 and/or the product label.

Procedures for dealing with release or spill: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or sweep up material and place into a disposable container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into compatible disposal container. On soils, small amounts will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition. Spillages or uncontrolled discharges into watercourses must be reported to the appropriate regulatory body.

SECTION – 7: HANDLING AND STORAGE

Handling practices: KEEP OUT OF REACH OF CHILDREN. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people.

Appropriate storage practices/requirements: Store in original container only in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

National Fire Code classification: Class IIIA Combustible Liquid

SECTION – 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicable control measures, including engineering controls: This product is intended for use outdoors where engineering controls are not necessary. If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV. Warehouses, production area, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

CONSULT THE PRODUCT LABEL FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS.

Personal protective equipment for each exposure route:

General: Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

INGESTION: Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

EYES: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

SKIN: Where contact is likely, wear chemical-resistant gloves (such as nitrile or butyl), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

INHALATION: A respirator is not normally required when handling this substance. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P, R or HE class filter and an organic vapour cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits (e.g. emergency spills).

SECTION – 9: PHYSICAL AND CHEMICAL PROPERTIES

BRAVO 500:

Appearance: Light gray viscous suspension.

Formulation Type: Liquid suspension.

Odour: Slight.

pH: 6-8.

Vapour pressure and reference temperature: 5.7×10^{-7} mmHg @ 25 °C (Chlorothalonil Technical).

Vapour density: Not available.

Boiling point: > 100 °C.

Melting point: Not applicable.

Freezing point: -5 °C.

Specific gravity or density: 1.23-1.27 g/mL.

Evaporation Rate: Not available.

Water/oil partition coefficient: Not available.

Odour threshold: Not available.

Viscosity: 23000 mPas @ 20 °C.

Solubility in Water: 0.81 mg/L @ 25 °C (Chlorothalonil Technical).

RIDOMIL GOLD 480EC

Appearance: Amber liquid.

Formulation Type: Emulsifiable concentrate

Odour: Sweet wax-like.

pH: 4 - 6 (1% aqueous solution @ 25 °C).

Vapour pressure and reference temperature: 2.5×10^{-5} mmHg @ 25 °C (Metalaxyl-M Technical).

Vapour density: Not available.

Boiling point: Not available.

Melting point: Not available.

Freezing point: < -30 °C.

Specific gravity or density: 1.01 g/cm³ @ 20 °C.

Evaporation Rate: Not available.

Water/oil partition coefficient: Not available.

Odour threshold: Not available.

Viscosity: 12 mPas @ 25 °C.

Solubility in Water: 26 g/L @ 25 °C (Metalaxyl-M Technical).

SECTION – 10: STABILITY AND REACTIVITY

BRAVO 500:

Chemical stability: Stable under normal use and storage conditions.

Conditions to avoid: Unstable under highly alkaline conditions.

Incompatibility with other materials: None known.

Hazardous decomposition products: Can decompose at high temperatures forming toxic gases.

Hazardous polymerization: Not known to occur.

RIDOMIL GOLD 480EC:

Chemical stability: Stable under normal use and storage conditions.

Conditions to avoid: Keep away from heat or open flames.

Incompatibility with other materials: Strong oxidizing materials, such as hydrogen peroxide, bromine, chromic acid, strong bases, strong acids.

Hazardous decomposition products: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion including oxides of carbon and nitrogen.

Hazardous polymerization: Will not occur.

SECTION – 11: TOXICOLOGICAL INFORMATION

Acute toxicity/Irritation Studies (Finished Products):

BRAVO 500:

Ingestion:	<u>Low Acute Toxicity</u> Oral (LD50 Rat):	4,200 mg/kg body weight
Dermal:	<u>Low Acute Toxicity</u> Dermal (LD50 Rabbit):	> 20,000 mg/kg body weight
Inhalation:	<u>Slightly Acutely Toxic</u> Inhalation (LC50 Rat):	> 1.96 mg/L air - 4 hours
Eye Contact:	<u>Severely Irritating (Rabbit)</u>	
Skin Contact:	<u>Irritating (Rabbit) - See "Other Toxicity Information", Sec. 11</u>	
Skin Sensitization:	<u>Sensitizer (Guinea Pig) - See "Other Toxicity Information", Sec. 11</u>	

RIDOMIL GOLD 480EC:

Ingestion:	<u>Low Acute Toxicity</u> Oral (LD50 Rat):	1,172 mg/kg body weight
Dermal:	<u>Low Acute Toxicity</u> Dermal (LD50 Rabbit):	> 2,020 mg/kg body weight
Inhalation:	<u>Low Acute Toxicity</u> Inhalation (LC50 Rat):	> 3.63 mg/L air - 4 hours
Eye Contact:	<u>Moderately Irritating (Rabbit)</u>	
Skin Contact:	<u>Slightly Irritating (Rabbit)</u>	
Skin Sensitization:	<u>Not a Sensitizer (Guinea Pig)</u>	

Reproductive/Developmental Effects

Chlorothalonil:	No evidence of adverse developmental effects in rabbit and rat studies.
Metalaxyl-M Technical:	None observed.

Chronic/Subchronic Toxicity Studies

Chlorothalonil:	In dogs, 1 years administration caused a significant decrease in body weight gain and increases in absolute liver and kidney weights. Neurotoxicity: No evidence in regulatory studies.
Metalaxyl-M Technical:	Liver effects at high dose levels. May cause substantial but temporary eye irritation. Skin and respiratory tract irritation may occur following prolonged exposure. The target organ for metalaxyl-M is the liver.

Carcinogenicity

Chlorothalonil:	No evidence of carcinogenicity in dogs after administration for up to one year. Treatment related increases in the incidence of renal tubular adenoma and carcinoma were observed in rats and male mice. Squamous cell adenomas and carcinomas were also observed in the forestomach of both species. However, the forestomach tumors seen in rodent studies are not relevant to human health as humans do not possess an anatomical equivalent of the rodent forestomach. The relevance of renal tumors to human health is unclear. However, metabolism data suggest that the dog, a species that is resistant to chlorothalonil-induced renal injury, may be more representative
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of humans than the rat. Subsequently, IARC identifies chlorothalonil as a 2B carcinogen (possibly carcinogenic to humans).

Metalaxyl-M Technical: None observed.

Other Toxicity Information:

BRAVO 500:

Studies on rats and mice have suggested that technical chlorothalonil (97%), when fed at high levels in the diet, may have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action for which threshold levels have been established in rats and mice. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels. In addition, surveillance of chlorothalonil plant workers for over twenty years has not demonstrated any increase in oncogenic potential to humans.

May cause irritation to the respiratory tract. May cause sensitization by skin contact. Exposure of the skin to chlorothalonil may result in weak contact dermatitis.

RIDOMIL GOLD 480EC:

None.

Toxicity of Other Components

Test results reported in Section 11 for the finished products take into account any acute hazards related to the excipient ingredients in the respective formulations.

Amorphous Silica

Amorphous Silica is listed as an IARC (Group 3) carcinogen not classifiable as a human carcinogen (No Data Available) with limited animal evidence. Prolonged exposure to amorphous silica may cause damage to respiratory system and irritation to skin and eyes.

Propylene Glycol

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

Butyrolactone:

Gamma-Butyrolactone is listed as an IARC (Group 3) carcinogen not classifiable as human carcinogen (No Data Available) with limited animal evidence. Prolonged exposure can result in pallor, nausea, anaesthetic or narcotic effects. Contact with eyes causes painful irritation, conjunctivitis, opaqueness of cornea and possible loss of sight.

Other materials that show synergistic toxic effects together with the product: None known.

Target Organs

Active Ingredients

Chlorothalonil:	Lung, eye, kidney.
Metalaxyl-M Technical:	Liver.

Inert Ingredients

BRAVO 500:

Amorphous Silica	Respiratory tract, skin, eye.
Propylene Glycol	CNS, skin, eye, kidney, liver.

RIDOMIL GOLD 480EC:

Butyrolactone:	CNS and Eyes.
Acetophenone:	Not Applicable.
Propylene Glycol:	CNS, skin, eye, kidney, liver.

SECTION – 12: ECOLOGICAL INFORMATION

Summary of Effects

BRAVO 500 is a fungicide that is mixed with water and applied as a spray for control of plant diseases on certain field crops. The active ingredient, chlorothalonil, is practically nontoxic to plants, mammals, birds and insects (bees), but is highly toxic to fish and aquatic invertebrates.

RIDOMIL GOLD 480EC is a fungicide for the systemic control of several fungal pathogens in various crops and fruits. The active ingredient, metalaxyl-M, is practically non-toxic to slightly toxic to fish, birds, aquatic invertebrates and insects (bees).

Eco-Acute Toxicity

BRAVO 500:

Chlorothalonil:

Bees LC ₅₀ /EC ₅₀ (Contact)	> 181 µg/bee
Invertebrates (Water Flea) LC ₅₀ /EC ₅₀	> 0.070 mg/L
Fish (Trout) LC ₅₀ /EC ₅₀	0.042 mg/L
Fish (Bluegill) LC ₅₀ /EC ₅₀	0.065 mg/L
Birds (8-Day Dietary - Bobwhite Quail) LC ₅₀ /EC ₅₀	> 5,200 mg/kg
Birds (8-Day Dietary - Mallard Duck) LC ₅₀ /EC ₅₀	> 5,200 mg/kg

RIDOMIL GOLD 480EC:

Metalaxyl-M:

Green Algae 5-Day EC ₅₀	140 mg/L
Bees LC ₅₀ /EC ₅₀ (Contact)	>100 µg/bee
Invertebrates (Water Flea) LC ₅₀ /EC ₅₀	28 mg/L
Fish (Trout) 96-hr LC ₅₀ /EC ₅₀	130 mg/L
Fish (Bluegill) 96-hr LC ₅₀ /EC ₅₀	139 mg/L
Birds (5-Day Dietary - Bobwhite Quail) LC ₅₀ /EC ₅₀	>5,000 mg/kg
Birds (5-Day Dietary - Mallard Duck) LC ₅₀ /EC ₅₀	>10,000 mg/kg

Eco-Chronic Toxicity

BRAVO 500:

Chlorothalonil:

Invertebrates <i>Daphnia</i> (Water Flea) Life Cycle MATC	0.05 mg/L
Fish: Fathead minnow: 21 Day MATC	0.003-0.0065 mg/L

RIDOMIL GOLD 480EC:

Metalaxyl-M Technical:

Invertebrate (<i>Daphnia magna</i>) Life Cycle NOEC	1.27 mg/L
Fish: Trout: 21 Day NOEC	9.1 mg/L

Environmental Fate

BRAVO 500:

The active ingredient chlorothalonil has a low bioaccumulation potential, a low mobility in soil and is not persistent in the environment. The main route of degradation is by microbial degradation and formation of bound residues.

RIDOMIL GOLD 480EC:

The active ingredient metalaxyl-M has a low bioaccumulation potential, a low to high mobility in soil (depending on soil type), and is not persistent in the environment. The main route of dissipation is by biological degradation.

SECTION – 13: DISPOSAL CONSIDERATIONS

Waste disposal information: Do not reuse empty containers unless they are specifically designed to be re-filled. Empty container retains product residue. Dispose of empty containers in accordance with local regulations. Consult provincial environment ministry for advice on waste disposal. Industrial/commercial waste may be handled at licensed facilities only. Waste shipments must be securely packaged and properly labelled. Only licensed carriers may be used, and proper documents must accompany the shipment.

SECTION – 14 : TRANSPORT INFORMATION

Shipping information such as shipping classification:

TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION - ROAD/RAIL
Not Regulated

SECTION – 15: REGULATORY INFORMATION

WHMIS classification for product: Exempt

A statement that the MSDS has been prepared to meet WHMIS requirements, except for use of the 16 headings.
This MSDS has been prepared in accordance with WHMIS requirements, but the data are presented under 16 headings.

Other regulations; restrictions and prohibitions

Pest Control Products (PCP) Act Registration No.: 26443

SECTION – 16: OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Syngenta will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant MSDS. Hazardous properties of all ingredients have been considered in the preparation of this MSDS. Read the entire MSDS for the complete hazard evaluation of this product.

Prepared by: Syngenta Canada Inc.
1-87-SYNGENTA (1-877-964-3682)

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