

**CHIPCO® 26019 BRAND FUNGICIDE**

MSDS Version 1.3

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	CHIPCO® 26019 BRAND FUNGICIDE
Chemical Name	GLYCOPHENE, PROMIDIONE, IPRODIONE, RP 26019
Synonym	
MSDS Number	40
Chemical Family	
Chemical Formulation	C13H13Cl2N3O3
EPA Registration No.	432-889
Canadian Registrat. No.	

Bayer Environmental Science
 95 Chestnut Ridge Road
 Montvale, NJ 07645
 USA

For Product Use Information: (800)331-2867 Monday through Friday
 8:00AM-4:30PM

For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day

For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

Product Use Description FIFRA regulated use only.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
IPRODIONE	36734-19-7	50.0000	
QUARTZ	14808-60-7	3.1000	
Other ingredients (Trade secret)			

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SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview

CAUTION!

Physical State

solid

Odor

odorless

Appearance

off-white powder

Immediate Effects

Eye

Causes irritation, redness, tearing.

Skin

Harmful if absorbed through skin. Causes irritation, redness, swelling.

Ingestion

Harmful if ingested. May cause intoxication, loss of coordination, prostration.

Inhalation

Harmful if inhaled. May cause respiratory tract irritation.

Chronic or Delayed Long-Term

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Medical Conditions Aggravated by Exposure

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

SECTION 4. FIRST AID MEASURES

Eye

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin

In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

Ingestion

If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Inhalation

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical

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attention.

Note to Physician

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	Not Applicable
Fire and Explosion Hazards	Under fire conditions, toxic, corrosive fumes are emitted.
Suitable Extinguishing Media	Not combustible. Use extinguishing method suitable for surrounding fire.
Fire Fighting Instructions	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal	<p>Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. Stay upwind if possible.</p> <p>Cleanup and Disposal of Spill: Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.</p>
Land Spill or Leaks	<p>Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill.</p> <p>Environmental and Regulatory Reporting Do not flush to drain. If spilled on the ground, the affected area should be removed to a depth of one or two inches and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterways.</p>

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Do not ingest. Do not breathe dusts. Avoid direct or prolonged contact with skin and eyes. It is recommended that all dust control equipment and material
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transport systems involved in handling of this product contain explosion relief vents or explosion suppression system or an oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be flowed through non-conductive ducts or pipes. Use only appropriately classed electrical equipment.

Storing Procedures

Store in an area that is away from food, feedstuffs, fertilizers and seed.

Work/Hygienic Procedures

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

Min/Max Storage Temperatures

Not Available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures.

Eye/Face Protection

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Body Protection

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Respiratory Protection

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the

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conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and fumes, pesticides.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape airsupply unit or use a self-contained breathing apparatus unit.

General Protection

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Limits

QUARTZ	14808-60-7	NIOSH	REL		0.05 mg/m3
			Form of Exposure	Respirable dust.	
		OSHA Z1A	TWA		0.1 mg/m3
			Form of Exposure	Respirable dust.	
		US CA OEL	TWA PEL		0.1 mg/m3
			Form of Exposure	Respirable dust.	
		US CA OEL	TWA PEL		0.3 mg/m3
			Form of Exposure	Total dust.	
		ACGIH	TWA		0.05 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white powder
Physical State	solid
Odor	odorless
pH	Not applicable
Vapor Pressure	Not Available
Vapor Density (air = 1)	Not Available
Specific Gravity	Not Available

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Boiling Point Not Available

Melting/Freezing Point Not Available

Solubility (in water) slightly soluble

Molecular Weight
330.19

Other Information Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability This material is stable under normal handling and storage conditions described in Section 7.

Conditions to Avoid none known

Incompatibility strong bases
strong acids
strong oxidizing agents

Hazardous Products of Decomposition Decomposition Type: thermal
hydrogen chloride
oxides of nitrogen

Hazardous Polymerization (Conditions to avoid) not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 - lethal dose 50% of test species, > 5000 mg/kg, rat.

Acute Dermal Toxicity LD50 - lethal dose 50% of test species, > 2000 mg/kg, rabbit.

Acute Inhalation Toxicity Acute Respiratory Irritation:
No test data found for product.

Acute Inhalation Toxicity:
LC50 - lethal concentration 50% of test species, > 2.96 mg/l/4 hr, rat

Skin Irritation (Rabbit) Moderately irritating.

Eye Irritation Rabbit. Moderately irritating.

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The above data is for the specified ingredients.

Chronic Toxicity No additional test data found for product.

Assessment Carcinogenicity

ACGIH

QUARTZ

14808-60-7

Group A2

NTP

QUARTZ

14808-60-7

IARC

OSHA

None

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information The following data is based on the technical grade active ingredient(s) (TGAI).

Ecotoxicological Information and Interpretation:

Mallard Duck (*Anas platyrhynchos*) LC50 - lethal concentration 50% of test species: 5620 mg/kg/8 days
Dietary concentrations. Nominal concentration.

Bobwhite Quail (*Colinus virginianus*).LC50 - lethal concentration 50% of test species: 5620 mg/kg/8 days
Dietary concentrations. Nominal concentrations.

Daphnia magna EC50 - effective concentration 50% of test species: 0.25 mg/l/48 hr
Mean concentration. Flow-through.

Rainbowtrout (*Oncorhynchus mykiss*) LC50 - lethal concentration 50% of test species: 4.1 mg/l/96 hr
Mean concentration. Flow-through.

Bluegill Sunfish (*Lepomis macrochirus*) LC50 - lethal concentration 50% of test species: 3.7 mg/l/96 hr
Mean concentration. Flow-through.

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Environmental Fate For chemical fate data call the product information phone number listed in Section 1.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Disposal DO NOT REUSE CONTAINERS.
Any containers or equipment used should be decontaminated immediately after use. Consult state and local regulations regarding the proper disposal of container.

EPA Hazardous Waste - NO

RCRA Classification

SECTION 14. TRANSPORT INFORMATION

Transportation Status:

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation
Shipping Name: NOT REGULATED

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No.	432-889
TSCA list	
QUARTZ	14808-60-7
TSCA 12b export notification	
None	
SARA Title III - section 302 - notification and information	
None	
SARA Title III - section 313 - toxic chemical release reporting	
None	

US States Regulatory

CA Prop65		
This product contains a chemical known to the state of California to cause cancer.	IPRODIONE	36734-19-7

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This product contains a chemical known to QUARTZ 14808-60-7
the state of California to cause cancer.

US State right-to-know ingredients

QUARTZ 14808-60-7 IL, MA, MN, PA

Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

QUARTZ 14808-60-7

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

IPRODIONE 36734-19-7 Harmful Dangerous for the environment

R Phrases Possible risks of irreversible effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases Keep out of the reach of children. Wear suitable protective clothing and gloves. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

European Inventory of Existing Commercial Substances (EINECS)

QUARTZ 14808-60-7

SECTION 16. OTHER INFORMATION

Reason for Revisions: Company name change.

Print Date: 12/04/2002

Supersedes MSDS, which is older than: 12/03/2002

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