



Material Safety Data Sheet
CHIPCO® 26019 N/G FUNGICIDE

MSDS Number: 102000005680
MSDS Version 2.2
Revision Date: 10/26/2011
Print Date: 10/27/2011

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name CHIPCO® 26019 N/G FUNGICIDE
MSDS Number 102000005680
Product code (UVP) 05971535
EPA Registration No. 432-889
Product Use Fungicide

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 or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

Physical State powder

Odor none

Appearance light tan to brown

Exposure routes Eye contact, Skin contact, Skin Absorption, Inhalation

Immediate Effects

Eye Causes redness, irritation, tearing. Avoid contact with eyes.

Skin Causes irritation, redness, swelling. Harmful if absorbed through skin. Avoid contact with skin and clothing.

Inhalation May cause respiratory tract irritation. Harmful if inhaled. Avoid breathing dust.



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Chronic or Delayed Long-Term

This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

This product or its components may have target organ effects.

Medical Conditions Aggravated by Exposure

No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure. Pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica.

Potential Environmental Effect

Toxic to invertebrates.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Iprodione	36734-19-7	50.00
Lignin, reaction product with sodium sulfite and formaldehyde	105859-97-0	4.50
Sodium lauryl sulfate	151-21-3	2.00
Quartz (Silica, Crystalline)	14808-60-7	2.39
Crystalline quartz (respirable)		

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



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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	not applicable
Autoignition temperature	no data available
Lower Flammability Limit	no data available
Upper Flammability Limit	no data available
Fire and Explosion Hazards	Dangerous gases are evolved in the event of a fire.
Suitable extinguishing media	Dry powder, Foam, Water spray
Fire Fighting Instructions	<p>Keep out of smoke. Fight fire from upwind position. Use appropriate extinguishing media for material that is supplying fuel. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	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. Decontaminate tools and equipment following cleanup.
Additional advice	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.



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SECTION 7. HANDLING AND STORAGE

Handling procedures Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Take measures to prevent the build up of electrostatic charge.

Storing Procedures 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. Store in original container and out of the reach of children, preferably in a locked storage area.

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.

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.

Eye/Face Protection Safety glasses with side-shields

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

Iprodione	36734-19-7	OES BCS* TX ESL	TWA ST ESL	2 mg/m3 50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Quartz (Silica, Crystalline)	14808-60-7	ACGIH	TWA	0.025 mg/m3



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NIOSH	REL	0.05 mg/m3
OSHA Z1A	TWA	0.1 mg/m3
Z3	TWA	2.4 millions of particles per cubic foot of air
Z3	TWA	0.1 mg/m3
Z3	TWA	0.3 mg/m3
US CA OEL	TWA PEL	0.1 mg/m3
US CA OEL	TWA PEL	0.3 mg/m3
TX ESL	ST ESL	1 ug/m3
TX ESL	ST ESL	1 ug/m3
TX ESL	AN ESL	0.1 ug/m3
TX ESL	AN ESL	0.1 ug/m3
TX ESL	ST ESL	10 ug/m3
TX ESL	AN ESL	1 ug/m3
	TWA	0.1 mg/m3

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	light tan to brown
Physical State	powder
Odor	none
pH	no data available
Vapor Pressure	not applicable
Vapor Density (Air = 1)	not applicable
Bulk density	14 - 23 lb/ft ³ (bulk density tapped)
Evaporation rate	no data available
Boiling Point	not applicable
Melting / Freezing Point	no data available
Water solubility	slightly soluble
Minimum Ignition Energy	no data available
Decomposition temperature	no data available



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Partition coefficient: n-octanol/water no data available

Viscosity not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid no data available

Incompatibility Strong bases
 Strong acids
 Strong oxidizing agents

Hazardous Decomposition Products Thermal decomposition
 Hydrogen chloride (HCl)
 nitrogen oxides (NOx)

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

Chemical Stability Stable under normal conditions.

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, iprodione.

Acute oral toxicity rat: LD50: > 2,000 mg/kg

Acute dermal toxicity rat: LD50: > 2,000 mg/kg

Acute inhalation toxicity rat: LC50: > 5.0 mg/l
 Exposure time: 4 h
 Determined in the form of dust.

rat: LC50: > 20 mg/l
 Exposure time: 1 h
 Determined in the form of dust.
 Extrapolated from the 4 hr LC50.

Skin irritation rabbit: slight irritation

Eye irritation rabbit: Mild eye irritation.

Sensitisation guinea pig: Non-sensitizing.

Chronic toxicity Iprodione caused effects in the liver, adrenal, ovary and testes in chronic feeding studies.



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Assessment Carcinogenicity

Iprodione produced benign testicular tumors in rats and benign liver and ovary tumors in mice when tested at a maximum tolerated dose.

ACGIH

Quartz (Silica, Crystalline) 14808-60-7 Group A2

NTP

Crystalline quartz (respirable)

IARC

Quartz (Silica, Crystalline) 14808-60-7 Overall evaluation: 1

OSHA

None.

Reproductive toxicity

REPRODUCTION: Iprodione caused toxicity in offspring at doses producing systemic toxicity in adult rats.

DEVELOPMENTAL TOXICITY: Iprodione was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed but were considered secondary to maternal toxicity.

Assessment neurotoxicity

Iprodione is not considered to be a neurotoxicant.

Mutagenicity

Iprodione was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish

Rainbow trout (*Oncorhynchus mykiss*)
LC50: 4.1 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient iprodione.

Toxicity to aquatic plants

Scenedesmus subspicatus
IC50: 15.3 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient iprodione.

Acute Toxicity to Aquatic Invertebrates

Water flea (*Daphnia magna*)
EC50: 0.25 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient iprodione.



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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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. 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.

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 Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. 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 **3077**
Class **9**
Packaging group **III**
Marine pollutant **YES**
Description of the goods **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IPRODIONE MIXTURE)**

IATA

UN-Number **3077**
Class **9**
Packaging group **III**
Environm. Hazardous Mark **YES**
Description of the goods **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IPRODIONE MIXTURE)**

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.



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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-889

US Federal Regulations

TSCA list

Lignin, reaction product with sodium sulfite and formaldehyde 105859-97-0
 Sodium lauryl sulfate 151-21-3
 Quartz (Silica, Crystalline) 14808-60-7

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 contains a chemical known to the State of California to cause cancer.
 Crystalline quartz (respirable)

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

US State Right-To-Know Ingredients

Quartz (Silica, Crystalline) 14808-60-7 IL, MA

Canadian Regulations

Canadian Domestic Substance List

Lignin, reaction product with sodium sulfite and formaldehyde 105859-97-0
 Sodium lauryl sulfate 151-21-3
 Quartz (Silica, Crystalline) 14808-60-7

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)

Iprodione 36734-19-7
 Quartz (Silica, Crystalline) 14808-60-7



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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

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

Health - 1 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.

Revision Date: 10/26/2011

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