

Material Safety Data Sheet CHIPCO® 26019 FLO BRAND FUNGICIDE

MSDS Number: 102000012056 MSDS Version 3.0 Revision Date: 02/01/2011 Print Date: 02/01/2011

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name CHIPCO® 26019 FLO BRAND FUNGICIDE

MSDS Number 102000012056

EPA Registration No. 432-888

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 swallowed, inhaled or absorbed through the skin. Avoid

contact with skin, eyes and clothing. Avoid breathing spray mist.

Physical State liquid suspension

Odor aromatic

Appearance white to light beige

Exposure routes Eye contact, Inhalation, Skin contact, Ingestion

Immediate Effects

Eye Causes eye irritation. Avoid contact with eyes.

Skin Harmful if absorbed through skin. Causes skin irritation. Avoid contact with skin

and clothing.

Ingestion Harmful if swallowed. Do not take internally.

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

spray mist.

Chronic or Delayed

Long-Term

This product or its components may have target organ effects.

Medical Conditions

Aggravated by Exposure

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

bronchitis.



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Potential Environmental

Toxic to invertebrates.

Effect

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name | CAS-No. | Average % by Weight |
|---|------------|---------------------|
| Iprodione | 36734-19-7 | 23.30 |
| Distillates (petroleum), solvent-refined light paraffinic | 64741-89-5 | |
| 1,2-Propanediol | 57-55-6 | |
| Nonylphenol ethoxylate, branched | 68412-54-4 | |

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

Hazards Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

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 No flash point - Determination conducted up to the boiling point.

Lower Flammability

Limit

2.6 %(V)



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Upper Flammability Limit 12 %(V)

Fire and Explosion

Hazards

Dangerous gases are evolved in the event of a fire.

Suitable extinguishing

media

Dry chemical, Carbon dioxide (CO2), Foam, Water spray

Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter

drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with spilled product or contaminated surfaces. Isolate hazard area.

Keep unauthorized people away.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be

removed and disposed.

Additional adviceUse personal protective equipment. Do not allow product to contact vegetation.

Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling procedures Handle and open container in a manner as to prevent spillage. Use only in area

provided with appropriate exhaust ventilation.

Keep away from heat and sources of ignition.

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



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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 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

| Iprodione | 36734-19-7 | OES BCS* TX ESL TX ESL | TWA ST ESL AN ESL | 2 mg/m3 50 ug/m3 5 ug/m3 |
|---|------------|------------------------------|-------------------------|--------------------------------|
| Distillates (petroleum), solvent-refined light paraffinic | 64741-89-5 | ACGIH | TWA | 5 mg/m3 |
| • | | ACGIH | STEL | 10 mg/m3 |
| | | ACGIH NIC | TWA | 0.2 mg/m3 |
| | | TX ESL | ST ESL | 50 ug/m3 |
| | | TX ESL | AN ESL | 5 ug/m3 |
| 1,2-Propanediol | 57-55-6 | WEEL | TWA | 10 mg/m3 |
| • | | TX ESL | ST ESL | 20 ug/m3 |
| | | TX ESL | ST ESL | 500 ppm |
| | | TX ESL | AN ESL | 2 ug/m3 |
| | | TX ESL | AN ESL | 50 ppm |
| | | | | |

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance white to light beige

Physical State liquid suspension

Odor aromatic



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pH 4.0 - 7.5 (100 %)

Density 1.03 g/cm³ at 20 °C

Boiling Point 100 °C / 212 °F

Water solubility dispersible

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid Heat, flames and sparks.

Static electricity.

Incompatibility Strong bases

Strong acids

Strong oxidizing agents

Hazardous Thermal decomposition

Decomposition Products nitrogen oxides (NOx)

Sulphur oxides

Hydrogen chloride (HCI)

Hazardous reactions No hazardous reactions known.

Chemical Stability Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity data has been bridged from a very similar formulation containing a similar percentage of the active ingredient, Iprodione. The non-acute information pertains to the technical-grade active ingredient.

Acute oral toxicity male rat: LD50: > 5,000 mg/kg

female rat: LD50: 4,619 mg/kg

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



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Acute inhalation toxicity male/female combined rat: LC50: > 0.8 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

Highest attainable concentration.

No deaths

male/female combined rat: LC50: > 3.2 mg/l

Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

Skin irritation rabbit: slight irritation

Eye irritation rabbit: Minimally irritating.

Sensitisation guinea pig: Non-sensitizing.

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

studies.

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

None.

NTP

Distillates (petroleum), solvent-refined light 64741-89-5

paraffinic

IARC

Distillates (petroleum), solvent-refined light 64741-89-5 Overall evaluation: 1

paraffinic

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 I prodione was not mutagenic or genotoxic based on the overall weight of

evidence in a battery of in vitro and in vivo tests.



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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. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal

Guidance

Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Follow advice on product label

and/or leaflet.

Container Disposal Do not re-use empty containers. Triple rinse containers. Puncture container to

avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. 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

CFR Not dangerous goods / not hazardous material

IMDG

UN-Number 3082 Class 9 Packaging group III

Marine pollutant Marine Pollutant

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(IPRODIONE SOLUTION)

IATA

UN-Number 3082 Class 9 Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(IPRODIONE SOLUTION)

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. 432-888

US Federal Regulations

TSCA list

Distillates (petroleum), solvent-refined light 64741-89-5

paraffinic

1,2-Propanediol 57-55-6 Nonylphenol ethoxylate, branched 68412-54-4

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

Distillates (petroleum), solvent-refined light 64741-89-5 CA, MA

paraffinic

1,2-Propanediol 57-55-6 MN, RI

Canadian Regulations

Canadian Domestic Substance List

Distillates (petroleum), solvent-refined light 64741-89-5

paraffinic

1,2-Propanediol57-55-6Nonylphenol ethoxylate, branched68412-54-4

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 Distillates (petroleum), solvent-refined light 64741-89-5



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paraffinic

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 2 Reactivity - 1 Others - none

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

Health - 2 Flammability - 2 Physical Hazard - 1 PPE -

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

Reason for Revision: The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 14: Transport Information. Updated for general editorial purposes.

Revision Date: 02/01/2011

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