

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

1/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name	CHIPCO® 26019 FLO BRAND FUNGICIDE
Product code (UVP)	05931509
SDS Number	102000012056
EPA Registration No.	432-888

Relevant identified uses of the substance or mixture and uses advised against

Use	Fungicide
Restrictions on use	See product label for restrictions.
Information on supplier	
Supplier	Bayer Environmental Science A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400 Cary, NC 27513 USA
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Aspiration hazard: Category 1
Carcinogenicity: Category 2
Reproductive toxicity: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200



SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

2/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

Signal word: Danger

Hazard statements

May be fatal if swallowed and enters airways.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.

Precautionary statements

Wash thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/ attention.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Iprodione	36734-19-7	23.3
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	32.3
Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	1.8

SECTION 4: FIRST AID MEASURES

Description of 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.
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.
Skin contact	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.
Eye contact	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.

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

3/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

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.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

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

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable High volume water jet

Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for firefighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information 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.

Specific hazards from the substance or mixture which can increase the fire

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

Auto-ignition temperature No data available

Lower explosion limit 2.6 %(V)

Upper explosion limit 12 %(V)

Explosivity No data available

Dust explosion class Not applicable.

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

4/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Isolate hazard area. Keep unauthorized people away.

Methods and materials for containment and cleaning up

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 advice Use personal protective equipment. Do not allow product to contact non-target plants. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion Keep away from heat and sources of ignition.

Hygiene measures 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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

5/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

Components	CAS-No.	Control parameters	Update	Basis
Iprodione	36734-19-7	1.7 mg/m3 (TWA)		OES BCS*
Distillates (petroleum), solvent-dewaxed light paraffinic (Mist.)	64742-56-9	5 mg/m3 (TWA)	1989	OSHA Z1A
Distillates (petroleum), solvent-dewaxed light paraffinic (Mist.)	64742-56-9	5 mg/m3 (REL)	2005	NIOSH
Distillates (petroleum), solvent-dewaxed light paraffinic (Mist.)	64742-56-9	10 mg/m3 (STEL)	2005	NIOSH
Distillates (petroleum), solvent-dewaxed light paraffinic (Mist.)	64742-56-9	5 mg/m3 (TWA PEL)	09 2006	US CA OEL
Distillates (petroleum), solvent-dewaxed light paraffinic (Inhalable fraction.)	64742-56-9	5 mg/m3 (TWA)	01 2010	ACGIH
Distillates (petroleum), solvent-dewaxed light paraffinic (Mist.)	64742-56-9	5 mg/m3 (PEL)	02 2006	OSHA Z1
Distillates (petroleum), solvent-dewaxed light paraffinic (Mist.)	64742-56-9	5 mg/m3 (TWA)	06 2008	TN OEL

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

6/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

Hand protection	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	suspension
Colour	white to light beige
Odour	aromatic
Odour Threshold	No data available
pH	4.0 - 8.0 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	100 °C / 212 °F
Flash point	No flash point - Determination conducted up to the boiling point.
Flammability	No data available
Auto-ignition temperature	No data available
Thermal decomposition	No data available
Minimum ignition energy	Not applicable
Self-accelarating decomposition temperature (SADT)	No data available
Upper explosion limit	12 %(V)
Lower explosion limit	2.6 %(V)
Dust explosion class	Not applicable.
Vapour pressure	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Relative density	No data available
Density	1.03 g/cm ³ (20 °C)
Water solubility	dispersible

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

7/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

Partition coefficient: n-octanol/water	No data available
Viscosity, dynamic	1,000 - 1,500 cps (20 °C)
Viscosity, kinematic	No data available
Oxidizing properties	No data available
Explosivity	No data available
Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	Heat, flames and sparks. Static electricity.
Incompatible materials	Strong bases, Strong acids, Strong oxidizing agents
Hazardous decomposition products	Nitrogen oxides (NO _x) Sulphur oxides Hydrogen chloride (HCl)

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Inhalation, Skin contact
Immediate Effects	
Eye	Not expected to produce significant adverse effects when recommended use instructions are followed.
Skin	Not expected to produce significant adverse effects when recommended use instructions are followed.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. May cause upper respiratory tract irritation.
Information on toxicological effects	
Acute oral toxicity	LD50 (male Rat) > 5,000 mg/kg LD50 (female Rat) 4,619 mg/kg

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

8/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

Acute inhalation toxicity	LC50 (male/female combined Rat) > 0.8 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths
Acute dermal toxicity	LD50 (male/female combined Rat) > 2,000 mg/kg
Skin corrosion/irritation	slight irritation (Rabbit)
Serious eye damage/eye irritation	Minimally irritating. (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure

Iprodione: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Iprodione caused specific target organ toxicity in experimental animal studies in rats in the following organ(s): Adrenal gland.

Assessment mutagenicity

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

Assessment carcinogenicity

Iprodione caused at high dose levels an increased incidence of tumours in the following organ(s): Liver, Testes. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

ACGIH

Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Group A4
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NTP

Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
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IARC

Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Overall evaluation: 3
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Assessment toxicity to reproduction

Iprodione did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Iprodione caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Iprodione are related to maternal toxicity.

Aspiration hazard

May be fatal if swallowed and enters airways.

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

9/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 4.1 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient iprodione.
Toxicity to aquatic invertebrates	(Daphnia magna (Water flea)) 0.25 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient iprodione.
Toxicity to aquatic plants	IC50 (Desmodesmus subspicatus (green algae)) 15.3 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient iprodione.
Biodegradability	Iprodione: Not rapidly biodegradable
Koc	Iprodione: Koc: 202 - 543
Bioaccumulation	Iprodione: Bioconcentration factor (BCF) 70 Does not bioaccumulate.
Mobility in soil	Iprodione: Moderately mobile in soils
Results of PBT and vPvB assessment	
PBT and vPvB assessment	Iprodione: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
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

Waste treatment methods

Product Do not contaminate water, food, or feed by disposal.
Dispose in accordance with all local, state/provincial and federal regulations.

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

10/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

	Follow advice on product label and/or leaflet.
Contaminated packaging	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

49CFR Not dangerous goods / not hazardous material

IMDG

UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IPRODIONE SOLUTION)

IATA

UN number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	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.

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

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-888

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

11/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

US Federal Regulations

TSCA list

Water	7732-18-5
Distillates (petroleum), solvent-dewaxed	64742-56-9
light paraffinic	
1,2-Propanediol	57-55-6
Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

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.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Iprodione	36734-19-7	Carcinogenic.
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US State Right-To-Know Ingredients

Distillates (petroleum), solvent-dewaxed	64742-56-9	CA, MN, RI
light paraffinic		
1,2-Propanediol	57-55-6	MN, RI

Environmental

CERCLA

None.

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

This chemical is a pesticide product regulated 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 required on the pesticide label:

Signal word: Caution!

Hazard statements: Harmful if swallowed, inhaled or absorbed through the skin.

SAFETY DATA SHEET



CHIPCO® 26019 FLO BRAND FUNGICIDE

Version 4.1 / USA
102000012056

12/12
Revision Date: 10/17/2022
Print Date: 10/20/2022

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 2 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Fourth 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,
* = chronic health hazard

Reason for Revision: Section 4: First Aid Measures. Reviewed and updated for general editorial purposes. The following sections have been revised: Section 5: Fire Fighting Measures. Section 7: Handling and Storage. Section 8: Exposure Controls / Personal Protection. Section 9: Physical and Chemical Properties. Section 10. Stability and reactivity. Section 11: Toxicological Information.

Revision Date: 10/17/2022

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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