



### **CHIPCO® 26019 FLO BRAND FUNGICIDE**

Version 4 / USA Revision Date: 09/23/2013 102000012056 Print Date: 05/06/2015

# 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 manufacturer

Bayer Environmental Science 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

**United States** 

Emergency telephone no.

All Emergencies, 24hr/ 7 days 1-800-334-7577 (24 hours/day)

Product Information 1-800-331-2867

Telephone No.

SDS Information or Request SDSINFO.BCS-NA@bayer.com

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Aspiration hazard : Category 1 Skin irritation : Category 2

Specific target organ toxicity - repeated exposure: Category 2





# Signal word: Danger Hazard statements

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause damage to organs (adrenal gland) through prolonged or repeated exposure.

### **Precautionary statements**

Wash thoroughly after handling.

Wear protective gloves. Do not breathe spray.

IF ON SKIN: Wash with plenty of soap and water.



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If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local regulation.

#### Other hazards

No other hazards known.

#### **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	32.30
1,2-Propanediol	57-55-6	4.90
Nonylphenol ethoxylate, branched	68412-54-4	2.90
Naphthalene and alkyl naphthalene sulphonic acids	68425-94-5	2.00
formaldehyde condensate, sodium salt		

#### **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.

**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.



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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. There is no specific

antidote.

#### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

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

**Unsuitable** None known.

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 fire-fighters

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.

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

Autoignition temperature no data available

Lower explosion limit 2.6 %(V)

Upper explosion limit 12 %(V)

**Explosivity** no data available

**Dust explosion class** Not applicable.



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

canal.

#### **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**

Components	CAS-No.	Control parameters	Update	Basis
Iprodione	36734-19-7	2 mg/m3		OES BCS*
		(TWA)		



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Iprodione	36734-19-7	5 ug/m3 (AN ESL)	07 2011	TX ESL
Iprodione	36734-19-7	50 ug/m3 (ST ESL)	07 2011	TX ESL
Distillates (petroleum), solvent-refined light paraffinic (Mist.)	64741-89-5	5 mg/m3 (TWA)	01 2006	ACGIH
Distillates (petroleum), solvent-refined light paraffinic (Mist.)	64741-89-5	10 mg/m3 (STEL)	01 2006	ACGIH
Distillates (petroleum), solvent-refined light paraffinic (Inhalable fraction.)	64741-89-5	0.2 mg/m3 (TWA)	01 2006	ACGIH NIC
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	50 ug/m3 (ST ESL)	10 2003	TX ESL
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	5 ug/m3 (AN ESL)	10 2003	TX ESL
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m3 (TWA)	2010	WEEL
1,2-Propanediol	57-55-6	1000 ug/m3 (ST ESL)	03 2012	TX ESL
1,2-Propanediol	57-55-6	50 ug/m3 (ST ESL)	03 2012	TX ESL
1,2-Propanediol	57-55-6	100 ug/m3 (AN ESL)	03 2012	TX ESL
1,2-Propanediol	57-55-6	50 ppb (AN ESL)	03 2012	TX ESL
1,2-Propanediol	57-55-6	500 ppb (ST ESL)	03 2012	TX ESL
1,2-Propanediol	57-55-6	5 ug/m3 (AN ESL)	03 2012	TX ESL

<sup>\*</sup>OES BCS: Internal Bayer CropScience "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.

Hand protection Chemical resistant nitrile rubber gloves

**Eye protection** Safety glasses with side-shields

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.





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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**

**Appearance** white to light beige

Physical State liquid suspension

**Odor** aromatic

Odour Threshold no data available

**pH** 4.0 - 7.5 (100 %)

Vapor Pressure no data available

Vapor Density (Air = 1) no data available

**Density** 1.03 g/cm³ at 20 °C

**Evapouration rate** no data available

**Boiling Point** 100 °C / 212 °F

Melting / Freezing Point no data available

Water solubility dispersible

Minimum Ignition Energy not applicable

Decomposition temperature

no data available

Partition coefficient: n-

octanol/water

no data available

**Viscosity** 1,000 - 1,500 cps

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

Autoignition temperature no data available

Lower explosion limit 2.6 %(V)

Upper explosion limit 12 %(V)

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**Explosivity** no data available

**Dust explosion class** Not applicable.

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Thermal decomposition no data available

**Chemical stability** Stable under normal 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 (NOx)

Sulphur oxides

Hydrogen chloride (HCI)

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Eye contact, Inhalation, Skin contact, Ingestion

**Immediate Effects** 

**Eye** Causes eye irritation.

**Skin** Harmful if absorbed through skin. Causes skin irritation.

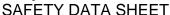
**Ingestion** Harmful if swallowed.

**Inhalation** 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





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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

LC50 (male/female combined rat) > 3.2 mg/l

Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

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

**Skin irritation** Slight irritation (rabbit)

**Eye irritation** Minimally irritating. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

#### Assessment repeated dose toxicity

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**

None.

#### **NTP**

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

light paraffinic

#### **IARC**

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

light paraffinic

### **OSHA**

None.

#### 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

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developmental effects seen with Iprodione are related to maternal toxicity.

#### **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 (Rainbow trout (Oncorhynchus mykiss)) 4.1 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient iprodione.

Toxicity to aquatic

(Water flea (Daphnia magna)) 0.25 mg/l

invertebrates

Exposure time: 48 h

The value mentioned relates to the active ingredient iprodione.

Toxicity to aquatic plants

IC50 (Scenedesmus subspicatus) 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

**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.

Follow advice on product label and/or leaflet.

Contaminated packaging

Do not re-use empty containers.

Triple rinse containers.



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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

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### **US Federal Regulations**

**TSCA list** 

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

light paraffinic

1,2-Propanediol57-55-6Nonylphenol ethoxylate, branched68412-54-4Naphthalene and alkyl naphthalene68425-94-5

sulphonic acids formaldehyde condensate, sodium salt

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.

Iprodione 36734-19-7

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 64741-89-5 CA, MA

light paraffinic

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

#### **Canadian Regulations**

**Canadian Domestic Substance List** 

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

light paraffinic

1,2-Propanediol57-55-6Nonylphenol ethoxylate, branched68412-54-4Naphthalene and alkyl naphthalene68425-94-5

sulphonic acids formaldehyde condensate, sodium salt

#### **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 64741-89-5

light paraffinic

1,2-Propanediol 57-55-6



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#### **EPA/FIFRA Information:**

This chemical is a pesticide product registered 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.

Avoid contact with skin, eyes and clothing.

Avoid breathing spray mist.

#### **SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 2 Instability - 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: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 09/23/2013

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