# CHIPCO 26019 FLO BRAND FUNGICIDE

**Date Prepared:** 08/24/00
**Supersedes Date:** 06/16/97

## *1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION*

AVENTIS ENVIRONMENTAL SCIENCE USA LP
95 Chestnut Ridge Road
Montvale, New Jersey 07645
United States
**Emergency Phone Numbers:**
Medical/Transport:
DART (800)334-7577 24 Hours/Day
CHEMTREC (800)424-9300 24 Hours/Day
**For Product Information:**
(800) 331-2867 24 Hours/Day
**Product Status:** FIFRA regulated use only.
**EPA FIFRA Registration Number:** 432-888
**Chemical Name or Synonym:** GLYCOPHENE; PROMIDIONE; IPRODIONE;
**Molecular Formula:** C13H13Cl2N3O3

## *2. COMPOSITION/INFORMATION ON INGREDIENTS*

| Component | CAS Reg Number | OSHA Hazard | Percentage |
|---|---|---|---|
| IPRODIONE | 36734-19-7 | Y | 23.3 |
| PROPANEDIOL | 57-55-6 | Y | PROPRIETARY |
| OTHER INGREDIENTS (TRADE SECRET) | ********** | N | BALANCE |

## *3. HAZARDS IDENTIFICATION*

**A. EMERGENCY OVERVIEW:**
**Physical Appearance and Odor:** white viscous liquid, aromatic odor.
**Warning Statements:** CAUTION! HARMFUL IF INHALED OR SWALLOWED.
**B. POTENTIAL HEALTH EFFECTS:**
**Acute Eye:** Causes irritation, redness.
**Acute Skin:** Harmful if absorbed through skin. Essentially non-irritating.
**Acute Inhalation:** Harmful if inhaled. Can cause upper respiratory tract irritation.
**Acute Ingestion:** Harmful if ingested. May cause nausea, vomiting, abdominal pain, loss of coordination.
**Chronic Effects:** This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

## *4. FIRST AID MEASURES*

**FIRST AID MEASURES FOR ACCIDENTAL:**
**Eye Exposure:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
**Skin Exposure:** 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.
**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 (cardiopulmonary resuscitation). Seek medical attention.
**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.
**MEDICAL CONDITIONS POSSIBLY 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.
**NOTES 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. This product is irritating to mucous membranes. If large amounts (greater than 1 ml/kg body weight) of the product have been ingested, the stomach should be evacuated by gastric intubation with the aid of a cuffed endotracheal tube to prevent exposure of the esophagus. After removal of stomach contents, wash stomach by instilling 30-50 g. of activated charcoal in 3-4 ounces of water through the stomach tube and again remove stomach contents. Avoid oily laxatives.

## *5. FIRE FIGHTING MEASURES*

**FIRE HAZARD DATA:**
**Flash Point:** > 93 C (200 F). Flammability Class: WILL BURN.
**Method Used:** Closed cup
**Flammability Limits (vol/vol%):**
**Lower:** 2.6
**Upper:** 12.6
**Extinguishing Media:** Recommended (small fires): dry chemical, carbon dioxide, Recommended (large fire): foam, water spray.
**Special Fire Fighting Procedures:** 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.
**Unusual Fire and Explosion Hazards:** Under fire conditions, toxic, corrosive fumes are emitted.
**Hazardous Decomposition Materials (Under Fire Conditions):** Oxides of nitrogen oxides of sulfur oxides of carbon.

## *6. ACCIDENTAL RELEASE MEASURES*

**Evacuation Procedures and Safety:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.
**Containment of Spill:** Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.
**Cleanup and Disposal of Spill:** Pump any free liquid into an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material as appropriate. Absorb with vermiculite or other inert absorbent. Decontaminate tools and equipment following cleanup. Collect washings for disposal.
**Environmental and Regulatory Reporting:** Prevent material from entering public sewer system or any waterways. 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.

## *7. HANDLING AND STORAGE*

**Minimum/Maximum Storage Temperatures:** Not Available
**Handling:** Do not ingest. Avoid direct or prolonged contact with skin and eyes. Do not breathe vapors and mists. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.
**Storage:** Store in an area that is away from ignition sources, away from food, feedstuffs, fertilizers and seed.

## *8. EXPOSURE CONTROLS/PERSONAL PROTECTION*

**Introductory Remarks:** 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 Guidelines:** Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:
**IPRODIONE**

| | Notes | TWA | STEL |
|---|---|---|---|
| MFG | | 2 mg/cu m | |

**PROPANEDIOL**

| | Notes | TWA | STEL |
|---|---|---|---|
| AIHA | | 10 mg/cu m | |
| AIHA | | 50 ppm | |

**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.
**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 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 air supply unit or use a self-contained breathing apparatus unit.
**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.
**Skin 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.
**Work Practice Controls:** 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.

## *9. PHYSICAL AND CHEMICAL PROPERTIES*

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.
**Physical Appearance:** white viscous liquid.
**Odor:** aromatic odor.
**pH:** 7 at 100 wt/wt%.
**Specific Gravity:** 1.03 at 20 C (68 F).
**Water Solubility:** dispersible
**Melting Point Range:** Not Available
**Boiling Point Range:** 100 C (212 F) at 760 mmHg
**Vapor Pressure:** 18 mmHg at 20 C (68 F)
**Vapor Density:** Not Available
**Molecular Weight:** 330.19

## *10. STABILITY AND REACTIVITY*

**Chemical Stability:** This material is stable under normal handling and storage conditions described in Section 7.
**Conditions To Be Avoided:**
elevated temperatures
open flame

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spark
static electricity
**Materials/Chemicals To Be Avoided:**
strong bases
strong acids
strong oxidizing agents
**The Following Hazardous Decomposition Products Might Be Expected:**
Decomposition Type: thermal hydrogen chloride oxides of nitrogen oxides of sulfur
**Hazardous Polymerization Will Not Occur.**
**Avoid The Following To Inhibit Hazardous Polymerization:** not applicable

## *11. TOXICOLOGICAL INFORMATION*

**Acute Eye Irritation:** The following data is for the specified ingredients.
**Toxicological Information and Interpretation**
eye - eye irritation, rabbit. Slightly irritating. Irritation is transient.
**Acute Skin Irritation:** The following data is for the specified ingredient.
**Toxicological Information and Interpretation**
skin - skin irritation, rabbit. Non-irritating.
**Acute Dermal Toxicity:** The following data is for the specified ingredients.
**Toxicological Information and Interpretation**
LD50 - lethal dose 50% of test species, > 2000 mg/kg, rabbit.
**Acute Respiratory Irritation:** No test data found for product.
**Acute Inhalation Toxicity:** The following data is for the specified ingredients.
**Toxicological Information and Interpretation**
LC50 - lethal concentration 50% of test species, 2.03 mg/l/4 hr, rat.
**Acute Oral Toxicity:** The following data is for the specified ingredients.
**Toxicological Information and Interpretation**
LD50 - lethal dose 50% of test species, > 5000 mg/kg, rat.
**Chronic Toxicity:** This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be probable or suspected human carcinogens. No additional test data found for product.

## *12. ECOLOGICAL INFORMATION*

**Ecotoxicological Information**
No data found for product.
**Chemical Fate Information:** No data found for product.

## *13. DISPOSAL CONSIDERATIONS*

**Waste Disposal Method:** 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 Handling and 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

## *14. TRANSPORTATION 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

## *15. REGULATION INFORMATION*

**FEDERAL REGULATIONS**
**TSCA Inventory Status:**
This product is excluded from TSCA because it is solely for FIFRA regulated use.
**SARA Title III Hazard Classes:**
Fire Hazard - NO
Reactive Hazard - NO
Release of Pressure - NO
Acute Health Hazard - YES
Chronic Health Hazard - NO
**STATE REGULATIONS:**
This product contains the following components that are regulated under California Proposition 65:

| Ingredient Name | Cancer List | Reprod. List | No Sign. Californian | Risk Lvl (ug/day) Mfg |
|---|---|---|---|---|
| IPRODIONE | Y | N | ND | ND |

## *16. OTHER INFORMATION*

**National Fire Protection Association Hazard Ratings—NFPA(R):**
2 Health Hazard Rating—Moderate
1 Flammability Rating—Slight
0 Instability Rating—Minimal
**National Paint & Coating Hazardous Materials Identification**
2 Health Hazard Rating—Moderate
1 Flammability Rating—Slight
0 Reactivity Rating—Minimal
**Reason for Revisions:**
Change Company Name, Address & EPA Number
**Key Legend Information:**
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissable Exposure Limit
TWA - Time Weighted Average
STEL - Short Term Exposure Limit
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer
ND - Not determined
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