



# Safety Data Sheet

**Stellar™ Fungicide**

## 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

**PRODUCT NAME:** Stellar™ Fungicide  
**EPA REGISTRATION NUMBER:** 59639-143  
**VC NUMBER(S):** 1736  
**PRODUCT DESCRIPTION:** Fungicide  
*Stellar* is a trademark of Valent U.S.A. Corporation.

**MANUFACTURER/DISTRIBUTOR**  
VALENT U.S.A. CORPORATION  
P.O. Box 8025  
1600 Riviera Avenue, Suite 200  
Walnut Creek, CA 94596-8025

**EMERGENCY TELEPHONE NUMBERS**  
HEALTH EMERGENCY OR SPILL (24 hr):  
(800) 892-0099  
TRANSPORTATION (24 hr.): CHEMTREC  
(800) 424-9300 or (202) 483-7616

**PRODUCT INFORMATION**  
AGRICULTURAL PRODUCTS: (800) 682-5368

The current SDS is available through our website ([www.valent.com](http://www.valent.com)), or by calling the product information numbers listed above.

## 2. HAZARDS IDENTIFICATION

**For EPA FIFRA-specific information see Section 15**

### Classification

Acute toxicity - Oral

Category 4

### Label elements

### EMERGENCY OVERVIEW

## WARNING

### Hazard statements

Harmful if swallowed

May be harmful in contact with skin

### Precautionary Statements - Prevention

Read product label prior to using this product. For specific handling instruction refer to Section 7, Handling and Storage

Emergency Telephone: (800) 892-0099  
REVISION NUMBER: 1

SDS NO.: 0288  
REVISION DATE: 02/26/2015

**Precautionary Statements - Response**

See Section 4, First Aid Measures

**Precautionary Statements - Storage**

For information on Storage and Handling see Section 7.

**Precautionary Statements - Disposal**

For further information on product and container disposal see Section 13.

**Hazards not otherwise classified (HNOC)****Other Information**

- Toxic to aquatic life with long lasting effects
- 25% of the mixture consists of ingredient(s) of unknown toxicity

For information on Transportation requirements see Section 14.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight/ Percent	TRADE SECRET
Fluopicolide	239110-15-7	5.54	
Propamocarb HCl	25606-41-1	55.4	
Others	Various CAS#s	39.1	

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

### 4. FIRST AID MEASURES

**EMERGENCY NUMBER (800) 892-0099**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

**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 poison control center or doctor for treatment advice.

**SKIN CONTACT:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:**

Treatment is supportive and symptomatic.

## 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	Not applicable	
<b>AUTOIGNITION:</b>	420° C	
<b>FLAMMABLE LIMITS IN AIR - LOWER (%):</b>		Not applicable
<b>FLAMMABLE LIMITS IN AIR - UPPER (%):</b>		Not applicable

**NFPA RATING:**

Health:	1
Flammability:	0
Reactivity:	0
Special:	None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may produce toxic gases of: hydrogen chloride, Hydrogen cyanide, Carbon monoxide, Hydrogen fluoride.

## 6. ACCIDENTAL RELEASE MEASURES

**VALENT EMERGENCY PHONE NUMBER: (800) 892-0099**  
**CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300**  
**OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION**

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

**UN/NA NUMBER:** Not applicable      **EMERGENCY RESPONSE GUIDEBOOK NO.:** Not applicable

**FOR SPILLS ON LAND:**

**CONTAINMENT:** Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

**FOR SPILLS IN WATER:**

**CONTAINMENT:** This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

## 7. HANDLING AND STORAGE

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

### HANDLING:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear protective clothing and equipment when handling this product. Goggles or protective eyewear, gloves, long-sleeved shirt, long pants, socks and shoes are appropriate. Remove and wash contaminated clothing before reuse. Do not put into food or drink containers. Do not dilute in food or drink containers.

Use only in well ventilated area. Avoid contact with skin and eyes. Do not breath spray mist.

### STORAGE:

Store in a cool, dry place. Keep pesticide in original container only. Keep container closed when not in use. Not for use or storage in or around the home. Do not store at temperatures below 32°F. If the product is exposed to temperatures below 32°F, thaw at room temperature to 50°F or warmer and shake gently to unify the product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary.

### INFORMATION FOR END USERS

**EYES & FACE:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**RESPIRATORY PROTECTION:** Not usually required. Use this material in a well ventilated area. If necessary, use a NIOSH approved air purifying respirator with a dust-mist filter / organic vapor cartridge combination.

**SKIN & HAND PROTECTION:** Avoid contact with skin or clothing. Skin contact can be minimized by wearing protective clothing including gloves.

### EXPOSURE LIMITS

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Fluopicolide	None	None	None
Propamocarb HCl	None	None	None
Others	None	None	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Opaque	<b>Odor threshold</b>	No information available
<b>Color</b>	Beige		

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	7.0	1:1 dilution with water
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	> 100 °C	
<b>Flash point</b>	Not applicable	

<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limits in Air</b>	
<b>Upper flammability limits</b>	Not applicable
<b>Lower flammability limit</b>	Not applicable
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	No information available
<b>Water solubility</b>	Dispersible in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	57 mPa @ 20° C
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Density</b>	1.13 g/cm <sup>3</sup> @ 20° C
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

Oral Toxicity LD <sub>50</sub> (rats)	> 2000 mg/kg	EPA Tox Category	III
Dermal Toxicity LD <sub>50</sub> (rats)	> 4000 mg/kg	EPA Tox Category	III
Inhalation Toxicity LC <sub>50</sub> (rats)	> 3.195 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Moderately irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Positive - local lymphnode assay Negative - Buehler	EPA Tox Category	Not applicable

**CARCINOGEN CLASSIFICATION**

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Fluopicolide	Not listed	Not listed	Not listed
Propamocarb HCl	Not listed	Not listed	Not listed
Others	Not listed	Not listed	Not listed

**CHRONIC/CARCINOGENICITY:** The liver and kidney are target organs in high dose animal experiments. Fluopicolide Technical did not cause cancer in rats, but produced benign liver tumors in mice at the maximum tolerated dose. The mechanism of liver tumor formation in the mouse is believed to be not relevant to humans. Long term animal studies with Propamocarb HCl did not produce carcinogenic effects.

**DEVELOPMENTAL TOXICITY:** Animal studies with the two active ingredients did not produce teratogenic effects.

**REPRODUCTION:** Animal studies with the two active ingredients did not produce reproductive effects.

**MUTAGENICITY:** Fluopicolide Technical is not genotoxic. Propamocarb HCl did not show any mutagenic effects in animals.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

## 12. ECOLOGICAL INFORMATION

**AVIAN TOXICITY:** Based upon EPA designation, fluopicolide technical is practically non-toxic to avian species. The following results were obtained from studies with fluopicolide technical:

Oral LD<sub>50</sub> mallard duck: greater than 2250 mg/kg  
 Dietary LC<sub>50</sub> bobwhite quail: greater than 5620 ppm  
 Dietary LC<sub>50</sub> mallard duck: greater than 5620 ppm

**AQUATIC ORGANISM TOXICITY:** Based upon EPA designation, fluopicolide technical may be highly toxic to aquatic organisms. The following are results of tests with fluopicolide technical:

Rainbow trout 96-hr LC<sub>50</sub>: = 0.36 mg/L  
 Sheepshead minnow 96-hr LC<sub>50</sub>: = 0.41 mg/L  
 Daphnia 48-hr LC<sub>50</sub>: > 1.8 mg/L  
 Fathead minnow Chronic NOEC = 0.155 mg/L  
 Daphnia Chronic NOEC = 0.37 mg/L  
 Algae (Pseudokirchneriella) 72-hr LC<sub>50</sub>: > 4.3 mg/L  
 Bioaccumulation, Bluegill sunfish: BCF 117

Tests indicate that Propamocarb HCl is slightly toxic to fish and aquatic invertebrates.

**OTHER NON-TARGET ORGANISM TOXICITY:**

Fluopicolide technical is practically non-toxic to bees. The acute contact LC<sub>50</sub> in bees was greater than 100 µg/bee.

**OTHER ENVIRONMENTAL INFORMATION:**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. See Directions for Use on product label for additional precautions and restrictions.

**13. DISPOSAL CONSIDERATIONS****END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

**PRODUCT DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times.

**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

**14. TRANSPORTATION INFORMATION**

**DOT (ground) SHIPPING NAME:** Not regulated for domestic ground transport by U.S. DOT

**EMERGENCY RESPONSE**

**GUIDEBOOK NO.:** Not applicable

**ICAO/IATA SHIPPING NAME:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Fluopicolide), 9, III, Marine Pollutant

**REMARKS:** Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations -- see UN Special Provision 375.

**IMDG SHIPPING NAME:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Fluopicolide), 9, III, Marine Pollutant

**EMS NO.:** F-A, S-F

**15. REGULATORY INFORMATION****EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:**

This material is a pesticide product registered by the EPA under FIFRA and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

**EPA FIFRA SIGNAL WORD: CAUTION**

- *Keep out of reach of children.*
- *Harmful if inhaled or absorbed through skin.*
- *Causes moderate eye irritation*
- *Toxic to fish and aquatic invertebrates*
- *May cause long-term adverse effects in the aquatic environment*

**PESTICIDE REGULATIONS:**

All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**U.S. FEDERAL REGULATIONS:** Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

**SARA (311, 312):**

Immediate Health:	Yes
Chronic Health:	No
Fire:	No
Sudden Pressure:	No
Reactivity:	No

**STATE REGULATIONS:** Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

<b>16. OTHER INFORMATION</b>
------------------------------

<b>REASON FOR ISSUE:</b>	Updated information to meet OSHA Hazcom 2012 (GHS) regulations.
<b>SDS NO.:</b>	0288
<b>EPA REGISTRATION NUMBER:</b>	59639-143
<b>REVISION NUMBER:</b>	1
<b>REVISION DATE:</b>	02/26/2015
<b>SUPERCEDES DATE:</b>	None
<b>RESPONSIBLE PERSON(S):</b>	Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803



---

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

The information in this SDS is based on data available to us as of the revision date given herein, and believed to be correct. Contact Valent U.S.A. Corporation to confirm if you have the most current SDS.

Judgments as to the suitability of information herein for the individual's own use or purposes are necessarily the individual's own responsibility. Although reasonable care has been taken in the preparation of such information, Valent extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the individual's purposes or the consequences of its use.

2015 Valent U.S.A. Corporation