

# FenStop®

**EPA Registration Number: 432-1389-59807**

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

**Trade name** . . . . . FenStop®  
**EPA Registration No.** . . . . . 432-1389-59807

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

**Use** . . . . . Fungicide  
**Restrictions on use** . . . . . See product label for restrictions.

**Company information** . . . . . OHP, Inc.  
PO Box 51230  
Mainland, PA 19451  
(800) 659-6745

**Emergency telephone number**

**TRANSPORTATION EMERGENCY (24 hours a day) call** . . . . . Chemtec: 1-800-424-9300

**MEDICAL EMERGENCY (24 hours a day) and Product Information call** . . . . . 1-800-356-4647

**SDS Information or Request**

. . . . . ohp.com

**2. HAZARDS IDENTIFICATION**

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

**Eye irritation** . . . . . Category 2B  
**Signal word** . . . . . Warning  
**Hazard statements** . . . . . Causes eye irritation.

**Precautionary statements**  
Wash face, hands and any exposed skin thoroughly after handling.

**IF IN EYES** . . . . . Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**If eye irritation persists** . . . . . Get medical advice/attention.

**Other hazards** . . . . . No particular hazards known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Components Name	CAS-No.	Concentration % by weight
Fenamidone	161326-34-7	44.4
1,2-Propanediol	57-55-6	2.31

**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. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. 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**

**Treatment** . . . . . : There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**5. FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** . . . . . : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** . . . . . : High volume water jet

**Special hazards arising from the substance or mixture** . . . . . : In the event of fire the following may be released: Carbon monoxide (CO), Nitrogen oxides (NOx), Sulphur oxides

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**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** . . . . . : > 100°C

**Autoignition temperature** . . : 510°C / 950°F

**Lower explosion limit** . . . . : no data available

**Upper explosion limit** . . . . : no data available

**Explosivity** . . . . . : Not explosive

**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** . . . . : Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Keep away from direct sunlight. Protect from freezing.

**Advice on common**

**storage** . . . . . : Keep away from food, drink and animal feedingstuffs.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

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

**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.

**Additional advice** . . . . . : Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

**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.

**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.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Fenamidone	161326-34-7	1 mg/m3		OES BCS*
1,2-Propanediol (Vapor.)	57-55-6	1000ug/m3 (ST ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	500ppb (ST ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	100ug/m3 (AN ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	50ppb (AN ESL)	02 2013	TX ESL
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m3 (TWA)	2010	WEEL

\*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

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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** . . . . .: Chemical resistant goggles must be worn.

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** . . . . .: white to light beige
- Physical State** . . . . .: suspension
- Odor** . . . . .: slight
- Odour Threshold** . . . . .: no data available
- pH** . . . . .: 6.5 - 8.0 at 100 % (23 °C)
- Vapor Pressure** . . . . .: no data available
- Vapor Density (Air = 1)** . . . . .: no data available
- Density** . . . . .: 1.13 g/cm<sup>3</sup> at 20°C
- Evaporation rate** . . . . .: no data available
- Boiling Point** . . . . .: no data available
- Melting / Freezing Point** . . . . .: no data available
- Water solubility** . . . . .: dispersible
- Minimum Ignition Energy** . . . . .: no data available
- Decomposition temperature** . . . . .: > 500 °C
- Partition coefficient:**
  - n-octanol/water** . . . . .: no data available
- Viscosity** . . . . .: 500 - 900 mPa.s
- Flash point** . . . . .: > 100 °C
- Autoignition temperature** . . . . .: 510 °C / 950 °F
- Lower explosion limit** . . . . .: no data available
- Upper explosion limit** . . . . .: no data available
- Explosivity** . . . . .: Not explosive

### 10. STABILITY AND REACTIVITY

- Reactivity**
- Thermal decomposition** . . . . .: > 500 °C
  - Chemical stability** . . . . .: Stable under recommended storage conditions.
  - Possibility of hazardous reactions** . . . . .: No dangerous reaction known under conditions of normal use.
  - Conditions to avoid** . . . . .: freezing  
Heat, flames and sparks.
  - Incompatible materials** . . . . .: no data available
  - Hazardous decomposition products** . . . . .: No decomposition products expected under normal conditions of use.

### 11. TOXICOLOGICAL INFORMATION

- Exposure routes** . . . . .: Eye contact, Skin contact, Inhalation
- Immediate Effects**
  - Eye** . . . . .: Moderate eye irritation.
  - Skin** . . . . .: May cause slight irritation.
  - Inhalation** . . . . .: Harmful if inhaled.
- Information on toxicological effects**
  - Acute oral toxicity** . . . . .: LD50 (rat) > 5,000 mg/kg
  - Acute inhalation toxicity** . . . . .: LC50 (rat) > 0.9 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.  
Highest attainable concentration.  
No deaths  
LC50 (rat) > 3.6 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.
  - Acute dermal toxicity** . . . . .: LD50 (rabbit) > 5,000 mg/kg
  - Skin irritation** . . . . .: Slight irritation (rabbit)
  - Eye irritation** . . . . .: Mild eye irritation. (rabbit)
  - Sensitisation** . . . . .: Non-sensitizing. (guinea pig)
  - Assessment repeated dose toxicity**  
Fenamidone did not cause specific target organ toxicity in experimental animal studies.

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**Assessment mutagenicity**

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

**Assessment carcinogenicity**

Fenamidone was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH** . . . . .: None.

**NTP** . . . . .: None.

**IARC** . . . . .: None.

**OSHA** . . . . .: None.

**Assessment toxicity to reproduction**

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

**Assessment developmental toxicity**

Fenamidone did not cause developmental toxicity in rats and rabbits.

**Further information** . . . . .: Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

**12. ECOLOGICAL INFORMATION**

**Toxicity to fish** . . . . .: LC50 (Oncorhynchus mykiss (rainbow trout))  
0.74 mg/l  
Exposure time: 96 h

The value mentioned relates to the active ingredient fenamidone.

**Toxicity to aquatic invertebrates** . . . . .: EC50 (Daphnia magna (Water flea)) 0.055 mg/l static test;  
Exposure time: 48 h

The value mentioned relates to the active ingredient fenamidone.

**Toxicity to aquatic plants** . . . . .: IC50 (Scenedesmus subspicatus) 3.4 mg/l  
Exposure time: 72 h

The value mentioned relates to the active ingredient fenamidone.

**Biodegradability** . . . . .: Fenamidone: ; not rapidly biodegradable

**Koc** . . . . .: Fenamidone: Koc: 387

**Bioaccumulation** . . . . .: Fenamidone: ; Does not bioaccumulate.

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

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product** . . . . .: Dispose in accordance with all local, state/provincial and federal regulations. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow advice on product label and/or leaflet.

**Contaminated packaging**

. . . . .: Triple rinse containers. Puncture container to avoid re-use. 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.

**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. (FENAMIDONE SOLUTION)

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HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(FENAMIDONE 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**Environmental****CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum****Contaminant Levels**

None.

**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** . . . . .: Moderate eye irritation.

Avoid contact with skin, eyes and clothing.

Harmful if inhaled.

Avoid breathing spray mist.

Remove and wash contaminated clothing before re-use.

Wash thoroughly with soap and water after handling.

**15. REGULATORY INFORMATION****EPA Registration** . . . . .: No. 432-1389-59807**US Federal Regulations****TSCA list**

1,2-Propanediol 57-55-6

**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**

1,2-Propanediol 57-55-6 MN

**Canadian Regulations****Canadian Domestic Substance List**

None.

**16. OTHER INFORMATION****NFPA 704 (National Fire Protection Association):**

Health - 2 Flammability - 1 Instability - 0 Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**Health - 1 Flammability - 1 Physical Hazard - 0 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** . . . . .: 03/09/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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