

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

FenStop®

EPA Registration Number: 432-1389-59807

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

FenStop®

EPA Registration Number: 432-1389-59807

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/cm³ 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.

FenStop®

EPA Registration Number: 432-1389-59807

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)

FenStop®

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