



# FERVID™

## SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

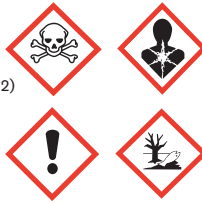
### 1. IDENTIFICATION

**PRODUCT NAME:** Fervid  
**DESCRIPTION:** A liquid insecticide  
**EPA REG. NO.:** 91234-299  
**COMPANY IDENTIFICATION:** Atticus, LLC  
 940 NW Cary Parkway, Suite 200  
 Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### DANGER

Toxic if swallowed (H301)  
 Harmful in contact with skin and if inhaled (H312+H332)  
 Causes damage to organs through prolonged or repeated exposure (H370+H372)  
 May damage fertility or the unborn child (H360)  
 Causes eye irritation (H320)  
 May cause an allergic skin reaction. (H317)  
 Very toxic to aquatic life with long lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Specific Target Organ Toxicity (Single Exposure)	1	None	-
Specific Target Organ Toxicity (Repeated Exposure)	1		
Reproductive Toxicity	1B	<b>Environmental Hazards</b>	<b>Category</b>
Skin Sensitizer	1B	Hazardous to the Aquatic Environment,	
Eye Irritation/Damage	2B	acute	1
Acute Toxicity, oral	3	Hazardous to the Aquatic Environment,	
Acute Toxicity, dermal	4	chronic	1
Acute Toxicity, inhalation	4		

#### HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow to come into contact with oxidizing agent, water & fire-retardant chemicals like Ammonium phosphates. Hazardous Chemical reaction may occur.

#### PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Do not breathe mist/spray. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing/ eye protection.

(P203+P260+P264+P265+P270+P271+P272+P280)

**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 help. (P305+P351+P338+P337+P317)

**IF SWALLOWED:** Get emergency medical help immediately. Specific treatment (see Section 4 of this document). Rinse mouth. (P301+P316+P331+P330)

**IF ON SKIN:** Wash with plenty of water. Get medical help. Specific treatment (see section 4 of this document). Take off contaminated clothing and wash it before reuse. (P302+P352+P317+P321+P362+P364)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

IF exposed or concerned: Get emergency medical help immediately. Specific treatment (see Section 4 of this document). (P308+P316+P321)

Avoid release to the environment not in accordance with the product label. (P273)

IF exposed or concerned, get medical advice. (P318)

Get medical help if you feel unwell. (P319)

Collect spillage. (P391)

Store in a well-ventilated place. Store locked up. (P403+P405)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Abamectin	Avermectin B1	65195-55-3 & 65195-56-4	2.0%
N-Methylpyrrolidone	2-Pyrrolidinone, 1-methyl-	872-50-4	< 20%

**NOTE:** Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call **CHEMTREC** Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

**IF SWALLOWED:** 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.

**IF IN EYES:** 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.

## 4. FIRST AID MEASURES (CONT.)

**NOTE TO PHYSICIAN:** Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

## 5. FIREFIGHTING MEASURES

**Flash Point:** >110°C (>230°F)

**Flammability Limits:** Not determined

**Fire and Explosion Hazards:** Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

**Extinguishing Medium:** Use dry chemical, foam or CO<sub>2</sub> extinguishing media. If water is used to fight fire, dike and collect runoff.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate all unnecessary personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity - 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering public sewer systems, drainage systems, any waterways or low areas. Do not flush to drain or soil. Contain contaminated water.

**Spill Cleanup:** Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Avoid breathing spray mist. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

**Storage:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Butylated hydroxytoluene (BHT)	Not Established	2 mg/m <sup>3</sup> TWA (inhalable)	10 mg/m <sup>3</sup> TWA	
n-Methylpyrrolidone	Not Established	Not Established	10 ppm TWA, skin	AHA
Abamectin	Not Established	Not Established	0.02 mg/m <sup>3</sup> TWA	Syngenta

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Applicators and other handlers must wear coveralls over short-sleeved shirt and short pants, chemical-resistant gloves made out of barrier laminate or butyl rubber >14 mils, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing, or loading.

**General:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	transparent amber liquid
<b>Odor:</b>	mildly sweet
<b>Melting/freezing point:</b>	not determined
<b>Boiling point/Boiling range:</b>	not determined
<b>Flammability:</b>	>230°F (>110°C)
<b>Flammability limits (upper/lower):</b>	not determined
<b>Flash point:</b>	not determined
<b>Auto-ignition temperature:</b>	not determined
<b>Decomposition temperature:</b>	not determined
<b>pH:</b>	3.8-4.8
<b>Kinematic viscosity:</b>	89.7 cP at 24°C; 44.1 cP at 39°C
<b>Solubility:</b>	not determined
<b>Partition coefficient:</b>	not determined
<b>Vapor pressure:</b>	not determined
<b>Density:</b>	8.3-9.3 lb/gal
<b>Relative vapor density:</b>	not determined
<b>Particle characteristics:</b>	not determined

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Not available.

**CHEMICAL STABILITY:** Stable at normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not available.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** 300 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 1,800 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** 3.5 mg/L (4-hour)

**EYE IRRITATION:** Moderately irritating (rabbit)

**SKIN IRRITATION:** Moderately irritating (rabbit)

**SKIN SENSITIZATION:** Sensitizing (guinea pig)

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Group 3 (Butylated hydroxytoluene)

**EPA:** Group E - Evidence of Non-Carcinogenicity for Humans (abamectin)

**DEVELOPMENTAL TOXICITY:** Developmental effects such as cleft palate were reported in rabbits. GABA also plays a role in development; cleft palate findings may reflect the interaction of abamectin on the GABA receptor.

**NEUROTOXICITY:** At high dose, decreased motor activity, reduced splay reflex, & tip toe gait were seen. No death or histopathological changes in nervous system were found in rats.

**REPEATED EXPOSURE TOXICITY:** Abamectin may cause damage to organs (nervous system) through prolonged or repeated contact.

## 12. ECOLOGICAL INFORMATION

Fervid™ is highly toxic to bees and aquatic organisms.

The following information is for the active ingredient, abamectin:

### AQUATIC TOXICITY

Rainbow Trout (96-hour LC<sub>50</sub>): 2.76 µg/L; (NOAEC): 0.52 µg/L

Sheepshead Minnow (96-hour LC<sub>50</sub>): 15.0 µg/L; (NOAEC): 0.30 µg/L

Daphnia (48-hour LC<sub>50</sub>): 0.27 µg/L; (NOAEC): 0.0029 µg/L

Mysid shrimp (96-hour EC<sub>50</sub>): 0.020 µg/L; (NOAEC): 0.0035 µg/L

Algae (9-day EC<sub>50</sub>): 12,000 µg/L; (NOAEC): 12,000 µg/L

### AVIAN TOXICITY

Mallard Duck (Acute Oral LD<sub>50</sub>): 85 mg/kg

Bobwhite Quail (NOAEC, diet): 20.0 mg/kg

### TERRESTRIAL INVERTEBRATES TOXICITY

Honey bee (LD<sub>50</sub>): 0.0044 µg/bee

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable containers. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

**US-DOT:**

UN2902, Pesticides, liquid, toxic, N.O.S.  
(contains abamectin), 6.1, PG III

**IMDG:**

**Containers ≤ 1.3 gal. (5 L) in strong outer packaging:**

Not regulated

**Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:**

Shipped internationally by vessel: UN2902, Pesticides, liquid, toxic, N.O.S. (contains abamectin), 6.1, PG III, Marine Pollutant

**IATA:**

Shipments by air: UN2902, Pesticides, liquid, toxic, N.O.S. (contains abamectin), 6.1, PG III, Marine Pollutant

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

**FIFRA –**

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. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING.** May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if inhaled. Harmful if absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 water when disposing of equipment wash water or rinsate.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come into contact with oxidizing agent, water & fire-retardant chemicals like Ammonium phosphates. Hazardous Chemical reaction may occur.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

## 15. REGULATORY INFORMATION (CONT.)

### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

### SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute), Delayed (Chronic)

### SARA Title III – Section 312 Threshold Planning Quantity

Not listed

### SARA Title III – Section 313 Reportable Ingredients


Abamectin (CAS No. 71751-41-2)

N-Methylopyrrolidone (CAS No.872-50-4)

### CERCLA Reportable Quantity (RQ) –

Not listed

### CALIFORNIA PROP 65 STATUS –

 **WARNING:** This product can expose you to chemicals including abamectin and N-methylopyrrolidone, which are known to the State of California to cause developmental toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

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.

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SDS Version: 1.1

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