

# Safety Data Sheet

## Aerothor Total Insect Control

Emergency Phone 1-800-424-9300 (Chemtrec)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Aerothor Total Insect Control  
**Chemical Name:** Esfenvalerate  
**Recommended use of the chemical and restrictions on use:** Insecticide

**Company:** Ensystem II, Inc.  
**Address:** 2175 Village Dr., Fayetteville, NC 28304  
**Daytime Phone:** 1-888-398-3772

### 2. HAZARDS IDENTIFICATION

#### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard  
29CFR 1910.1200

Route of entry: Eyes - Yes      Skin – Yes      Inhalation – Yes      Ingestion - Unlikely

Target Organs: None known

Inhalation: Excessive inhalation of mists can cause nasal and respiratory irritation

Skin Contact: Can cause skin irritation. Can cause a burning or pricking sensation on more sensitive areas (face, eyes, mouth).  
Harmful if absorbed through skin.

Eye Contact: Causes temporary irritation, tearing and blurred vision

Ingestion: Harmful in swallowed

Label Elements

Hazard pictograms



#### Signal Word: Warning

GHS Classifications:

Physical, Flammable Aerosols, 2  
Health, Acute toxicity, 4 Oral  
Health, Aspiration hazard, 2  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 B  
Health, Specific target organ toxicity - Single exposure, 3  
Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Phrases:

H223 - Flammable aerosol  
H229 - Pressurized container: may burst if heated  
H302 - Harmful if swallowed  
H305 - May be harmful if swallowed and enters airways  
H315 - Causes skin irritation  
H320 - Causes eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P202 - Do not handle until all safety precautions have been read and understood.  
P251 - Pressurized container: Do not pierce or burn, even after use.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P270 - Do not eat, drink or smoke when using this product.  
P281 - Use personal protective equipment as required.  
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+352 - IF ON SKIN: Wash with soap and water.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin or respiratory conditions.

LISTED CARCINOGENS: OSHA - Not listed IARC - Not listed NTP - Not listed

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Esfenvalerate	CAS # 66230-04-4	Weight % - 0.05
Liquified petroleum gas	CAS # 68476-85-7	Weight % - 10-15
Petroleum distillates	CAS # 64742-47-8	Weight % - <3
Aromatic Petroleum distillates	CAS # 64742-95-6	Weight % - <2

### 4. FIRST-AID

#### Description of first-aid measures

**General advice:** First-Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

**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. If the person is not breathing and has no pulse, consider cardiopulmonary resuscitation (CPR); use pocket resuscitation mask, bag valve mask etc., to avoid risk of poisoning rescuer. Consult a physician in all cases.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor immediately 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 immediately 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. Never give anything by mouth to an unconscious person.

### 5. FIRE-FIGHTING MEASURES

**Flammability:** This aerosol is NOT classified as FLAMMABLE by the flame extension test method described in 16 CFR 1500.45.

**Flash Point:** >212°F (>100°C) (concentrate) / -156°F (-104.4°C) (propellant)

**Flash Point Method:** Estimated

**Autoignition Temp:** Not established

**LEL:** Not established

**UEL:** Not established

Means of Extinction:

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions this product may support combustion and may decompose to give off toxic gases such as Hydrogen Cyanide, carbon monoxide, carbon dioxide and nitrogen oxides.

**EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 130°F / 54.4°C may cause bursting.

**FIRE FIGHTING PROCEDURES:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

**SENSITIVITY TO IMPACT:** Forceful impacts can cause damage to aerosol unit and may cause a bursting or explosion hazard.

**PROTECTION OF FIREFIGHTERS:** Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

**LARGE SPILL:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Contains pyrethroids which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.

## 7. HANDLING AND STORAGE

**Handling:** Use good personal hygiene. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

**Storage:** Keep out of reach of children. Product should be stored in compliance with local regulations. Store in a well ventilated, cool, dry area. Keep away from heat sources. Store in original container.

Store in accordance with NFPA 30B for Level 1 AEROSOL

**Incompatible products:** None known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicators should refer to the product label for personal protection equipment requirements during application.

Component	OSHA PEL	ACGIH-TLV
Liquified Petroleum Gas	None	1,000 ppm
Petroleum distillates	None	None
Aromatic petroleum distillates	None	None
Esfenvalerate	None	None

**Engineering measures:** Apply technical measures to comply with the occupational exposure limits.

### Exposure controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure limits.

**Respiratory Protection:** Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required or during emergency conditions, use a NIOSH/MSHA approved respiratory protection.

**Hand/Skin Protection:** Wear long-sleeved shirt, long pants, socks, protective gloves and shoes

**Eye/Face Protection:** Chemical proof goggles / face shield

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Emulsion/Solvent

pH: 6.8

Physical State: Mixture packaged in pressurized aerosol spray can

Flash Point/Range: > 65.5°C / > 149.9°F Tag Closed Cup

Water solubility: Dispersible in water

Vapor pressure: 15.2 atmospheres at @ 68 °F (20 °C)

Specific Gravity: 1.024 @ 20°C

Bulk Density: 8.53 lb/gal

Flammability (solid, gas): No information available

Flammability limit in Air

Upper flammability limit: No information available

Lower flammability limit: No information available

Vapor pressure: No information available

Vapor density: No information available

Density: No information available

Solubility in other solvents: No information available

Partition coefficient: No information available

Autoignition temperature: No information available

Decomposition temperature: No information available

## 10. STABILITY AND REACTIVITY

**Reactivity:** None under normal use conditions

**Chemical Stability:** Stable under normal storage conditions.

**Conditions to Avoid:** Heat, flames and sparks.

**Materials to Avoid:** Strong bases, strong bases and strong oxidizing agents

**Hazardous Decomposition Products:** Under fire conditions this product may support combustion and may decompose to give off toxic gases such as hydrogen cyanide, Carbon oxides (CO<sub>x</sub>), hydrogen chloride and nitrogen oxides.

**Additional Information:** Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Inhalation LC50/Rat/ >2g/L 4 hr (rat); Oral LD50/Rat/1.95 g/kg; Dermal LD50/Rabbit/>2 g/kg

**Chronic Toxicity:** Inhalation, after repeated exposure, various species,

### Skin corrosion/irritation

Moderate irritation at 72 hours. Produced a primary skin irritation index of 2.29.

### Serious eye damage/eye irritation

Irritation clearing in 72 hours.

### Sensitization

Non-sensitizing

**GENERAL COMMENTS:** The above toxicity data was bridged from the concentrate of a similar formula, that would go into making this end-use product.

**COMMENTS:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

## 12. ECOTOXICOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Environmental data not available for this product.

**ECOTOXICOLOGICAL INFORMATION:** For terrestrial uses: Do not apply directly to water, or 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 waters or rinsate.

### 13. DISPOSAL CONSIDERATIONS

**EMPTY CONTAINER:**

IF EMPTY: Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEAN-UP for disposal instructions.

RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4).

### 14. TRANSPORT INFORMATION

DOT Class: Flammable Gas (2.1) #2.1

UN #: UN 1950, Class: 2, Proper Shipping Name: Aerosols, flammable

### 15. REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

\*Liquefied petroleum gas (68476857 10-15%) MASS, OSHAWAC, PA, TSCA, TXAIR

\*Petroleum distillates (64742478 <3%) TSCA

\*Aromatic petroleum distillates (64742956 <2%) TSCA

\*Aromatic hydrocarbon (64742956 <2%) TSCA

\*Esfenvalerate (66230-04-4 0.05%) TSCA

REGULATORY KEY DESCRIPTIONS

Mass= MA Massachusetts Hazardous Substances List

OSHAWAC= OSHA Workplace Air Contaminants

PA= PA Right-To-Know List of Hazardous Substances

TSCA= Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

**Proposition 65** - California Safe Drinking Water and Toxic Enforcement Act of 1986

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

### 16. Other Information

**Hazard rating System**

**NFPA**

Health	Fire	Reactivity
1	4	1

**Disclaimer:** The information of this SDS is based on the present state of our knowledge. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

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