



# Safety Data Sheet

## The Armor All/STP Products Company

44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810  
Tel. 1-203-205-2900

### 1. Product And Company Identification

**Product Name:** ARMOR ALL® Fresh Fx™ Rapid Odor Eliminator – Twilight Mist™

**Responsible Party:** The Armor All/STP Products Company  
44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810

**Information Phone Number:** +1 203-205-2900

**Emergency Phone Number:**

For Medical Emergencies, call 1-866-949-6465 / +1 303-389-1332 (Outside US and Canada)  
For Transportation Emergencies, call 1-800-424-9300 (Chemtrec) +1-703-527-3887 for  
Outside US and Canada (call collect)

**SDS Date of Preparation:** 07/21/2017

**Product Use and Uses Advised Against:** Odor Eliminator – For consumer and professional use

### 2. Hazards Identification

Note: This product is a consumer product and is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.

**GHS Classification:**

<b>Physical:</b> Flammable Aerosol Category 1 Gases Under Pressure: Compressed Gas	<b>Health:</b> Eye Irritation Category 2A Skin Sensitizer Category 1B
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**GHS Label Elements:**



Danger!

Statements of Hazard	Precautionary Phrases
<p>Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause an allergic skin reaction</p> <p><b>Response</b> 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 attention.</p>	<p><b>Prevention</b> Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized Container. Do not pierce or burn, even after use. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, and eye protection. Wash thoroughly after handling.</p>



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#### Response Continued

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical attention.

Wash contaminated clothing before reuse.

#### Storage

Protect from sunlight. Do not exposure to temperatures exceeding 50°C / 122°F. Store in a well-ventilated place.

#### Disposal

Dispose of contents and container in accordance with local and national regulations.

### 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Trans-1,3,3,3-Tetrafluoroprop-1-Ene	29118-24-9	60-70%
Ethanol	64-17-5	20-30%
Distillates (Petroleum), Hydrotreated Light	64742-47-8	1-3%
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2	<2%
Tertiary Butyl Alcohol	75-65-0	<2%

The exact concentrations are a trade secret.

### 4. First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. Seek medical attention if breathing problems or irritation persist.

**Skin Contact:** Wash exposed skin with soap and water. If skin irritation or rash develop, seek medical attention.

**Eye Contact:** Flush eyes with large amounts of water for 15 minutes. If irritation or other symptoms persist, seek medical attention.

**Ingestion:** Ingestion is not an expected route of exposure for aerosols. However, if large quantities are ingested, get medical assistance.

**Most Important Symptoms:** Contact causes eye irritation. Mists may cause mild respiratory irritation. Prolonged overexposure may cause rapid breathing, headache, dizziness and narcosis. Prolonged skin contact may cause mild irritation. Contact may cause an allergic skin reaction in sensitized individuals. Mists may cause mild respiratory irritation. Swallowing may cause gastrointestinal disturbances and central nervous system effects including headache, dizziness, drowsiness and unconsciousness.

**Indication of Immediate Medical Attention/Special Treatment:** None required under normal use conditions.

### 5. Firefighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use water fog, alcohol foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Contents under pressure. Keep away from ignition source and open flames. Exposure of containers to heat and flames can cause them to rupture,



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often with violent force. Thermal decomposition may produce carbon monoxide, carbon dioxide fluorine compounds and hydrogen fluoride.

**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting cans.

### 6: Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Eliminate all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing and equipment.

**Methods and Materials for Containment and Clean-Up:** Place leaking can in a pail in a well-ventilated area away from ignition sources until pressure has dissipated. Collect liquid using non-combustible absorbents and place into a suitable container for disposal.

**Environmental Precautions:** Prevent entry into storm sewers and waterways. Report spill as required by local and national regulations.

### 7. Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing spray or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. No smoking in storage or product use area. Wash thoroughly with soap and water after handling. Keep out of the reach of children. Contents under pressure; do not puncture or incinerate containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, well-ventilated area, away from incompatible materials. Do not store in direct sunlight or above 120°F. **U.F.C. (NFPA 30B) Level 1 Aerosol.**

### 8. Exposure Controls / Personal Protection

#### Exposure Guidelines:

CHEMICAL	EXPOSURE LIMIT
Trans-1,3,3,3-Tetrafluoroprop-1-Ene	800 ppm TWA Manufacturer recommended
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV
Distillates (Petroleum), Hydrotreated Light	1200 mg/m <sup>3</sup> TWA Manufacturer recommended
Tertiary Butyl Alcohol	100 ppm TWA ACGIH TLV 100 ppm TWA OSHA PEL
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	None Established

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

#### Personal Protective Equipment

**Respiratory Protection:** None under normal use conditions. For operations where the exposure limits may be exceeded, a NIOSH approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in



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accordance with 29 CFR 1910.134; all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** None under normal use conditions. Impervious gloves are recommended for prolonged or repeated skin contact.

**Eye Protection:** None under normal use conditions. Safety glasses are recommended to avoid eye contact.

**Other Protective Equipment/Clothing:** Appropriate protective clothing as needed to avoid prolonged/ repeated skin contact.

## 9. Physical and Chemical Properties

**Appearance and Odor:** Liquid with characteristic odor in aerosol can.

<b>Physical State:</b> Liquid-based aerosol	<b>Odor Threshold:</b> Not available
<b>pH:</b> Not determined	<b>Specific Gravity:</b> Not determined
<b>Initial Boiling Point/Range:</b> Not determined	<b>Vapor Pressure:</b> Not determined
<b>Melting/Freezing Point:</b> Not determined	<b>Vapor Density:</b> Not determined
<b>Solubility In Water:</b> Not determined	<b>Percent Volatile:</b> Not determined
<b>Viscosity:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Relative Density:</b> Not determined	<b>VOC Content:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Autoignition Temp:</b> Not determined
<b>Flash Point:</b> Not applicable (Propellant) 56°F (13.3°C) (Liquid component)	<b>Flame extension:</b> Not determined
<b>Flammability Limits:</b> LEL: 3.3% (ethanol) UEL: 19% (ethanol)	<b>Flammability (solid, gas):</b> Propellant is flammable.
<b>Decomposition Temperature:</b> Not available	

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

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

**Possibility of Hazardous Reactions:** None known

**Conditions to Avoid:** Keep away from excessive heat, sparks, open flames and direct sunlight. Containers may rupture at temperatures > 120°F (48.8°C).

**Incompatible Materials:** Strong oxidizing agents and alkali metals.

**Hazardous Decomposition Products:** Burning may produce carbon monoxide, carbon dioxide, fluorine compounds and hydrogen fluoride.

## 11. Toxicological Information

### Potential Health Effects:

#### **Acute Hazards:**

**Inhalation:** Mist may cause mild irritation to the throat and respiratory tract. Prolonged overexposure may cause rapid breathing headache, dizziness and narcosis.

**Skin Contact:** Prolonged skin contact may cause irritation and drying of the skin. Contains the following materials which may cause an allergic reaction in sensitized individuals: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone.



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**Eye Contact:** Causes eye irritation with redness and tearing.

**Ingestion:** Ingestion is an unlikely route exposure for aerosol products. Swallowing may cause gastrointestinal disturbances and central nervous system effects including headache, dizziness, drowsiness, drunkenness and unconsciousness.

**Chronic Effects:** None known

**Carcinogenicity Listing:** None of the components listed at 0.1% or greater is a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA

### Numerical Measures of Toxicity:

Product ATE: LD50 Oral >5,000 mg/kg  
LD50 Dermal > 5,000 mg/kg  
LC50 Inhalation > 5 mg/L

Trans-1,3,3,3-Tetrafluoroprop-1-Ene:  
LC0 Inhalation Rat: > 207,000 ppm / 4 hr.

Ethanol: LD50 Oral Rat: 10,470 mg/kg  
LD50 Skin Rabbit: 12,800 mg/kg  
LC50 Inhalation Rat: 124.7 mg/L/4h

Distillates (Petroleum), Hydrotreated Light:  
LD50 Oral Rat: >5,000 mg/kg  
LD50 Skin Rat: >5,000 mg/kg  
LC50 Inhalation Rat: >5,000 mg/m<sup>3</sup>

Tertiary Butyl Alcohol: LD50 Oral Rat: 2,743 mg/kg  
LD50 Skin Rabbit: >2,000 mg/kg  
LC50 Inhalation Rat: > 10,000 ppm /4 hr.

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone:  
LD50 Oral Rat: >5,000 mg/kg  
LD50 Skin Rat: >5,000 mg/kg

## 12. Ecological Information

**Ecotoxicity:** No ecotoxicity data is currently available for product.

Trans-1,3,3,3-Tetrafluoroprop-1-Ene:

LC0: Cyprinus carpio > 117 mg/L/ 96 hr.  
LC50 Daphnia: >160 mg/L/ 48 hr.

Ethanol:

LC50 Fathead Minnow 15.3 g/L/96 hr.  
EC50 Daphnia 12340 mg/L/48 hr.  
EC50 Skeletonema costatum 10940 mg/L/72 hr.

Distillates (Petroleum), Hydrotreated Light: Not expected to be harmful to aquatic organisms.

Not expected to demonstrate chronic toxicity to aquatic organisms.

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone: No data available



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**Persistence and Degradability:** No data available for product.  
Trans-1,3,3,3-Tetrafluoroprop-1-Ene: Not readily biodegradable.  
Ethanol: Readily biodegradable

**Bio accumulative Potential:** No data available for product.

**Mobility in Soil:** No data available for product.  
Ethanol: Highly mobile in soil.

**Other Adverse Effects:** No data available

### 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

### 14. Transport Information

**DOT Hazardous Materials Description:** UN1950, Aerosols, Class 2.1, Ltd Qty

**IMDG Dangerous Goods Description:** UN1950, Aerosols, 2.1, Ltd Qty

### 15. Regulatory Information

#### United States:

**EPA TSCA INVENTORY:** All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA Section 103:** This product has no RQ. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Classified under OSHA Hazcom 2012 GHS as per Section 2 of this SDS.

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

#### Canada:

**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian DSL.

### 16. Other Information

NFPA Rating (NFPA 704):	Health: 2	Fire: 4	Instability: 0
HMIS Rating:	Health: 2*	Fire: 2	Physical Hazard: 0

\*Chronic health hazard.

DATE OF CURRENT REVISION: 07/21/2017

REVISION SUMMARY: New SDS

DATE OF PREVIOUS REVISION: N/A



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