



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 – Coastal Dunes™

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:

Physical:	Health:
Flammable Aerosol Category 1 Gases Under Pressure: Compressed Gas	Eye Irritation Category 2A Toxic to Reproduction Category 2 Skin Sensitizer Category 1

GHS Label Elements:



Danger!

Statements of Hazard	Precautionary Phrases
Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.	Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Avoid breathing mist, or spray. Pressurized Container. Do not pierce or burn, even after use. Contaminated work clothing must not be allowed out of the workplace.



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Response

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.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical attention.

Prevention Continued

Wear protective gloves, and eye protection. Wash thoroughly after handling.

Storage

Protect from sunlight. Do not exposure to temperatures exceeding 50°C / 122°F.
Store locked up.

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%
Tertiary Butyl Alcohol	75-65-0	<2%
P-T-Butyl-Alpha-Methylhydrocinnamic Aldehyde	80-54-6	<1%
Geraniol	106-24-1	<1%
Hexyl Salicylate	6259-76-3	<1%
Cinnamaldehyde	104-55-2	<1%
Alpha-Methylcinnamaldehyde	101-39-3	<1%
Isoeugenol	97-54-1	<1%

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. Swallowing may cause gastrointestinal disturbances and central nervous system effects including headache, dizziness, drowsiness, and unconsciousness. Contact may cause an allergic skin reaction in sensitized individuals. Suspected of causing damage to reproductive system.

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



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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, 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 STEL ACGIH TLV 1000 ppm TWA OSHA PEL
Distillates (Petroleum), Hydrotreated Light	1200 ppm TWA Manufacturer recommended
Tertiary Butyl Alcohol	100 ppm TWA ACGIH TLV 100 ppm TWA OSHA PEL
P-T-Butyl-Alpha-Methylhydrocinnamic Aldehyde	None Established



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Geraniol	None Established
Hexyl Salicylate	None Established
Cinnamaldehyde	None Established
Alpha-Methylcinnamaldehyde	None Established
Isoeugenol	None Established

Appropriate Engineering Controls: General ventilation should be adequate for normal use. For operations where the TLVs 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 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.

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



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Hazardous Decomposition Products: Thermal decomposition may produce carbon monoxide, carbon dioxide and hydrogen fluoride compounds.

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: Geraniol, Hexyl salicylate, Cinnamaldehyde, alpha-Methylcinnamaldehyde, and Isoeugenol.

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 and unconsciousness.

Chronic Effects: Contains p-t-Butyl-alpha-methylhydrocinnamic aldehyde which is suspected of causing damage to reproductive system.

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: 7060 mg/kg LC50 inhalation rat 117 – 125 mg/L/ 4 hr.
Distillates (Petroleum), Hydrotreated Light:	LD50 Oral Rat: >5000 mg/kg LD50 Skin Rabbit: >5,000 mg/kg LC50 Inhalation Rat: >5.0 mg/L/4h
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.
P-T-Butyl-Alpha-Methylhydrocinnamic Aldehyde:	LD50 Oral Rat: 1,390 mg/kg LD50 Skin Rat: >2,000 mg/kg LC50 Inhalation Rat: > 0.18 mg/L/7 hr.
Geraniol:	LD50 Oral Rat: 3600 mg/kg LD50 Skin Rabbit: >5,000 mg/kg
Hexyl Salicylate:	LD50 Oral Rat: >5,000 mg/kg LD50 Skin Rabbit: >5,000 mg/kg



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Cinnamaldehyde:	LD50 Oral Rat: 2,500 mg/kg LD50 Skin Rabbit: 1,100 mg/kg
Alpha-Methylcinnamaldehyde:	LD50 Oral Rat: 2050 mg/kg LD50 Skin Rabbit: >5,000 mg/kg
Isoeugenol:	LD50 Oral Rat: 1,500 mg/kg LD50 Skin Rabbit: 19,000 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 14,200 mg/L/96 hr.
EC50: Daphnia Magna: 9268-14221 mg/L/48 hr.
EC50 Chlorella pyrenoidosa (Green algae; growth inhibition) 9310 mg/L/48 hr.

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

Tertiary Butyl Alcohol: LC50 Fathead Minnow >961 mg/L/96 hr.

P-T-Butyl-Alpha-Methylhydrocinnamic Aldehyde:
LC50 Danio rerio (Zebra fish) 2.04 mg/L/ 96 hr.
EC50 Daphnia magna 9.84 mg/L/ 48 hr.

Geraniol: LC50 Danio rerio (Zebra fish) 2.04 mg/L/ 96 hr.
EC50 Daphnia magna 10.8 mg/L/ 48 hr.

Hexyl Salicylate: LC50 Danio rerio (Zebra fish) 1.34 mg/L/ 96 hr.
EC50 Daphnia magna 0.357 mg/L/ 48 hr.

Cinnamaldehyde: LC50 Brachydanio rerio 4.15 mg/L/ 96 hr.

Alpha-Methylcinnamaldehyde: LC50 Fathead Minnow 1.7 mg/L/96 hr.
EC50 Daphnia magna STRAUS 9.9 mg/L/ 48 hr.

Persistence and Degradability: No data available for product.

Trans-1,3,3,3-Tetrafluoroprop-1-Ene: Not readily biodegradable.

Ethanol: Readily biodegradable

P-T-Butyl-Alpha-Methylhydrocinnamic Aldehyde: Readily biodegradable.

Geraniol: Readily biodegradable.

Hexyl Salicylate: 91% in 28 days.

Cinnamaldehyde: Readily biodegradable.

Alpha-Methylcinnamaldehyde: Readily biodegradable.

Bio accumulative Potential: No data available for product.

Ethanol: Not expected to bio-accumulate

Cinnamaldehyde: BCF 8.3

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.



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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

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH