



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™ Vent & Duct Cleaner/Odor Neutralizer – Tranquil Skies™

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: 07/31/2017

Product Use and Uses Advised Against: Automotive maintenance product – 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: Flammable Aerosol Category 1 Gases Under Pressure: Compressed Gas	Health: Non Hazardous
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GHS Label Elements:



Danger!

Statements of Hazard

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.

Prevention

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

3. Composition/Information on Ingredients



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Component	CAS No.	Amount
1,1-difluoroethane (Propellant)	75-37-6	5-15%
Isopropyl Alcohol	67-63-0	1-3%
Propylene glycol n-butyl ether	5131-66-8	1-3%

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 redness develop, seek medical attention.

Eye Contact: Flush eyes with large amounts of water for several 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 by calling an emergency room or poison control center. Never give anything by mouth to a person who is unconscious or drowsy.

Most Important Symptoms: May cause mild eye and skin irritation. Mists may cause mild respiratory irritation. Inhalation of high concentrations of difluoroethane may cause anesthetic effects and a feeling of euphoria. Prolonged overexposure may cause rapid breathing, headache, dizziness and narcosis.

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

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



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national regulations.

7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors 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
1,1-difluoroethane (Propellant)	1000 ppm AIHA WEEL
Isopropyl Alcohol (Isopropanol)	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV
Propylene glycol n-butyl ether	50 ppm TWA (manufacturer recommended)

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. Use explosion proof equipment where required.

Personal Protective Equipment

Respiratory Protection: None under normal use conditions. For operations where the TLVs 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 alcohol odor in aerosol can.

Physical State: Liquid-based aerosol	Odor Threshold: Not available
pH: 9.46	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



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Relative Density: Not determined	VOC Content: Not determined
Coefficient Of Water/Oil Distribution: Not determined	Autoignition Temp: Not determined
Flash Point: < -58°F (-50°C) (1,1-difluoroethane- Propellant) 132°F (-50.6°C) (Liquid component)	Flame extension: Not determined
Flammability Limits: LEL: 2.0% (Isopropanol) UEL: 16.9% (1,1-difluoroethane)	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 and open flames. Containers may rupture at temperatures > 120°F (48.8°C).

Incompatible Materials: Strong oxidizing agents.

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

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

Inhalation: Mist may cause mild irritation to the throat and respiratory tract. Inhalation of high concentrations of difluoroethane may cause anesthetic effects and a feeling of euphoria. Prolonged overexposure may cause rapid breathing. Headache, dizziness and narcosis.

Skin Contact: May cause mild skin irritation.

Eye Contact: Direct contact may cause mild eye irritation with redness and tearing.

Ingestion: Ingestion is an unlikely route exposure for aerosol products. Swallowing may cause gastrointestinal disturbances.

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:

1,1-difluoroethane: LC50 Inhalation Rat: > 437,500 ppm / 4 hr.

Isopropyl Alcohol: LD50 Oral Rat: 5045 mg/kg
LD50 Skin Rabbit: 12,800 mg/kg
LC50 Inhalation Rat: 72.6 mg/L/4h

Propylene glycol n-butyl ether: LD50 Oral Rat: 3,300 mg/kg
LD50 Skin Rat: >2,000 mg/kg



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12. Ecological Information

Ecotoxicity: No ecotoxicity data is currently available for product.

Isopropyl Alcohol: LC50 Fathead Minnow 6550 mg/L/96 hr.

Propylene glycol n-butyl ether: LC50 Guppy: 560-1000 mg/L/ 96 hr.; LC50 Daphnia: >1000 mg/L/ 48 hr.

Persistence and Degradability: No data available for product.

Isopropyl Alcohol: In adults, the elimination half-life ranges from 2.9 to 16.2 hours.

Propylene glycol n-butyl ether: Readily biodegradable.

Bio accumulative Potential: No data available for product.

Isopropyl Alcohol: In adults, the elimination half life ranges from 2.9 to 16.2 hours.

Mobility in Soil: No data available for product.

Isopropyl alcohol: 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.



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16. Other Information

NFPA Rating (NFPA 704):	Health: 1	Fire: 4	Instability: 0
HMIS Rating:	Health: 1	Fire: 2	Physical Hazard: 0

DATE OF CURRENT REVISION: 07/31/2017

REVISION SUMMARY: Product Name change

DATE OF PREVIOUS REVISION: 06/30/2017

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