

# 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:** 307

**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:** 02/27/2017

**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:**

<b>Physical:</b>	<b>Health:</b>
Gases Under Pressure: Compressed Gas	Acute Toxicity Category 4 (Oral) Specific Target Organ Toxicity Single Exposure Category 1 Carcinogen Category 1B

**GHS Label Elements:**



**Danger!**

<b>Statements of Hazard</b>	<b>Precautionary Phrases</b>
Contains gas under pressure; may explode if heated. Harmful if swallowed. Causes damage to optic nerve through ingestion. May cause cancer.	<b>Prevention</b> Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe gas, vapors or spray.  <b>Storage</b> Store locked up. Protect from sunlight. Store in a well-ventilated place.

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### Response

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
Rinse mouth.  
IF exposed or concerned: Call a POISON CENTER or doctor.

### Disposal

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

## 3. Composition/Information on Ingredients

Component	CAS No.	Amount
1,1,1,2-tetrafluoroethane	811-97-2	70-80%
Polyalkylene glycol monobutyl ether	Proprietary	10-20%
Methanol	67-56-1	<3%
Methylene chloride	75-09-2	<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 problem or irritation persists.

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

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

**Ingestion:** Ingestion is an unlikely route exposure. However, if ingestion should occur, seek immediate medical attention.

**Most Important Symptoms:** May cause mild eye and skin irritation. Methyl Alcohol may be absorbed through the skin in harmful amounts. Spray may cause freeze burns. Mists may cause mild respiratory irritation. Exposure to high concentrations can induce anesthetic effects progressing from dizziness, weakness, nausea, to unconsciousness. May cause cancer. Harmful if swallowed. If ingested, may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, headache, blurring of vision, and central nervous system effects. Visual effects from methanol include blurred vision, double vision, changes in color perception, restriction of visual fields and complete blindness.

**Indication of Immediate Medical Attention/Special Treatment:** Seek immediate medical attention in the unlikely event that this product is ingested.

## 5. Firefighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use the following extinguishing media when fighting fires involving this material: polar solvent foam, carbon dioxide, dry chemical, and water spray. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Contents under pressure. Exposure of containers to heat and flames can cause them to rupture often with violent force. Burning may alkyl low molecular weight components, organic chlorides, COx, SOx, NOx, POx, hydrochloric acid, hydrofluoric acid, organic pyrolytic components, and phosgene.

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**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 ignition sources. Ventilate area. Wear appropriate protective clothing and equipment. Spills of liquid material may cause floors to become slippery. Use caution to prevent slip hazards.

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

**Environmental Precautions:** Report release as required by local and national regulations.

### 7. Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes and skin. Avoid breathing aerosol or gas. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Contents under pressure, do not puncture or incinerate containers. Refer to OSHA 1910.1052 (methylene chloride standard) for additional requirements.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, well-ventilated area, away from incompatible materials. Keep away from heat, sparks, open flames and all other sources of ignition. 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
1,1,1,2-tetrafluoroethane	1000 ppm TWA AIHA WEEL
Polyalkylene glycol monobutyl ether	None established
Methanol	200 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV skin 250 ppm STEL ACGIH TLV
Methylene chloride	50 ppm TWA ACGIH TLV 25 ppm TWA, 125 ppm STEL OSHA PEL

**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 supplied air respirators recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and 1910.1052; all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** Wear impervious gloves to avoid skin contact.

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**Eye Protection:** Safety glasses are recommended if eye contact is possible.

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

## 9. Physical and Chemical Properties

**Appearance And Odor:** Reddish liquid and compressed gas with ethereal odor.

<b>Physical State:</b> Liquid and compressed gas.	<b>Odor Threshold:</b> Not available
<b>pH:</b> < 7	<b>Specific Gravity:</b> 1.166
<b>Initial Boiling Point/Range:</b> -26.5°C @ 736 mm Hg (1,1,1,2-tetrafluoroethane)	<b>Vapor Pressure:</b> 4268 mm Hg at 20°C
<b>Melting/Freezing Point:</b> -15.7 °F (<-26.5°C)	<b>Vapor Density:</b> (Air = 1) 3.3
<b>Solubility in Water:</b> Water solubility 3.3%	<b>Percent Volatile:</b> 79%
<b>Viscosity:</b> 24 CP @ 20° C (Liquid component)	<b>Evaporation Rate:</b> (n-butyl acetate = 1.0): >120
<b>Decomposition Temperature:</b> Not available	<b>VOC Content:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Autoignition Temp:</b> 662°F (350°C)
<b>Flash Point:</b> 52 °F (11°C) * See below.	<b>Flame extension:</b> Not determined
<b>Flammability Limits:</b> LEL: 60,000 ppm (Liquid component) UEL: 360,000 ppm (Liquid component)	<b>Flammability (solid, gas):</b> Not applicable

\* Flash point identified for the liquid portion is for a volatile component constituting a small percentage of the liquid portion of the product and would have limited influence on the flammability of the liquid portion due to the mixture of volatile components with higher flash points which would be mixed with this component in the vapor phase. The mixture of volatile components will be defined by Raoult's Law of Partial Vapor Pressures. The remainder of the volatile liquid portion in the product has flash points above 27° C, 80° F and constitutes ~ 6% by volume. The nonvolatile liquid portion in the product has flash points above 204° C, 400° F and constitutes ~ 17% by volume.

## 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. Containers may rupture at temperatures > 120°F (48.8°C)

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Burning may produce alkyl low molecular weight components, organic chlorides, COx, SOx, NOx, POx, hydrochloric acid, hydrofluoric acid, and organic pyrolytic components.

## 11. Toxicological Information

### Potential Health Effects:

#### **Acute Hazards:**

**Inhalation:** Mist can irritate the throat and respiratory tract. Exposure to high concentrations can induce anesthetic effects progressing from dizziness, weakness, nausea, to unconsciousness.

**Skin Contact:** May cause mild skin irritation. Exposure to spray may cause freeze burns.

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

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**Ingestion:** Ingestion is an unlikely route exposure. Harmful if swallowed. If ingested, may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, headache, blurring of vision, and central nervous system effects. Visual effects from methanol include blurred vision, double vision, changes in color perception, restriction of visual fields and complete blindness.

**Chronic Effects:** Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, including nausea, vomiting, headache, ringing in the ears, dizziness, vertigo, cloudy and double vision. With massive overdoses of methanol; liver, kidney and heart muscle injury have been described. Prolonged overexposure of methanol may result and in severe eye damage.

**Carcinogenicity Listing:** Contains methylene chloride which is classified as an OSHA carcinogen, ACGIH - Confirmed animal carcinogen with unknown relevance to humans, NTP - Reasonably anticipated to be a human carcinogen, and IARC 2B - Possibly carcinogenic to humans. None of the other components listed at 0.1% or greater is a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA

### Numerical Measures of Toxicity:

Product:	LD50 Oral: 723.6 mg/ kg Calculated ATE LD50 Skin: 2,170.8.8 mg/ kg Calculated ATE LD50 Inhalation: 21.7 mg/ L Calculated ATE
Polyalkylene glycol monobutyl ether: 1,1,1,2-tetrafluoroethane:	Not acutely toxic. LC50 Inhalation Rat: >500,000/ 4 hr.
Methanol:	LD50 Oral Rat: 9100 mg/kg LD50 Skin Rabbit: 15,940 mg/kg LC50 Inhalation Rat: 145,000 ppm/1 hr.
Methylene Chloride:	LD50 Oral Rat >2,000 mg/kg LD50 Dermal Rat >2,000 mg/kg

## 12. Ecological Information

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

Methanol: LC50 Fathead minnows 29,400 mg/L/96 hr.  
EC50 Daphnia magna >10,000 mg/L/24 hr.

**Persistence and Degradability:** No data available for product.

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

**Mobility in Soil:** No data available for product. If released to soil, 1,1,1,2-tetrafluoroethane will rapidly volatilize from either moist or dry soil to the atmosphere. It will display moderate to high mobility in soil.

**Other Adverse Effects:** None

## 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:**

UN3159, 1,1,1,2-Tetrafluoroethane, 2.2, DOT-SP 10232 LTD QTY

#### **IMDG Dangerous Goods Description:**

UN3159, 1,1,1,2-Tetrafluoroethane, 2.2, DOT-SP 10232

### 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:** Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Methylene Chloride (<1% maximum) of 1,000 lbs., is 100,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute health, chronic health, sudden release of pressure.

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372):

Methylene Chloride CAS# 75-09-2 at < 1%

Methanol CAS# 67-56-1 at <3%

### 16. Other Information

NFPA Rating (NFPA 704):	Health: 1	Fire: 3	Instability: 0
HMIS Rating:	Health: 1*	Fire: 2	Physical Hazard: 0
	*Chronic Health		

REVISION DATE: 02/27/2017

REVISION SUMMARY: Change in company information. Revision to all sections based on classification change.

PREVIOUS REVISION DATE: 07/23/2015

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