



The Armor All/STP Products Company

## Material Safety Data Sheet

### 1. Product And Company Identification

**Product Name:** ARMOR ALL® Detailer's Advantage Tire Foam® Protectant

**Responsible Party:** The Armor All/STP Products Company

**MSDS Date Of Preparation:** 12/28/11

**Product Use:** Automotive maintenance product – For consumer and professional use

### 2. Hazards Identification

#### EMERGENCY OVERVIEW CAUTION

Contents under pressure. Avoid eye contact. May cause mild eye irritation. Use with adequate ventilation.

### 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Propellant (propane, isobutane, dimethyl ether )	74-98-6 / 75-28-5 / 115-10-6	1 - 5%
Non-Hazardous Ingredients	Mixture	Balance

### 4. First Aid Measures

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

**Skin Contact:** Rinse eyes with plenty of water. If skin irritation or redness develops, seek medical attention.

**Eye Contact:** Flush eyes with plenty of water. If irritation or other symptoms persist, seek medical attention.

**Ingestion:** If the victim is fully conscious, have them drink a glass of water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

### 5. Firefighting Measures

**Extinguishing Media:** Use dry chemical, carbon dioxide, foam, or water spray.

**Special Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Use shielding to protect against bursting cans.

**Unusual Fire Hazards:** Contents under pressure. Closed containers may rupture if exposed to extreme heat.

**Hazardous Combustion Products:** Thermal decomposition will generate oxides of carbon and silicon and

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formaldehyde.

## 6: Accidental Release Measures

**Personal Precautions:** Wear appropriate protective equipment.

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

**Methods for Containment and Clean-Up:** Absorb with an inert material. Collect into a suitable container for disposal. Rinse area with water.

## 7. Handling and Storage

Avoid contact with eyes. Avoid prolonged contact with skin, and clothing. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture or incinerate containers.

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

CHEMICAL	EXPOSURE LIMIT
Propane	1000 ppm TWA OSHA PEL
	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
Isobutane	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
Dimethyl ether	1000 ppm TWA AIHA WEEL
Non-Hazardous Ingredients	None Established

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

**Respiratory Protection:** None under normal use conditions. For operations where the TLV 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 normally required.

**Eye Protection:** None required for normal use. Avoid eye contact. Safety glasses or goggles are recommended if eye contact is possible.

**Other Protective Equipment/Clothing:** None required under normal use conditions.

## 9. Physical and Chemical Properties

**Appearance And Odor:** Opaque, white, slightly viscous liquid with a mild solvent odor in an aerosol can.

pH: ~9

Specific Gravity: ~1.0



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<b>Boiling Point:</b> Not determined	<b>Vapor Pressure:</b> Not determined
<b>Freezing Point:</b> Not determined	<b>Vapor Density:</b> Not determined
<b>Solubility in Water:</b> Appreciable	<b>Percent Volatile:</b> Not determined
<b>Viscosity:</b> ~30cP	<b>Evaporation Rate:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Autoignition Temp:</b> Not determined
<b>Flash Point:</b> >200°F (>93°C) (Closed Cup)(Liquid component)	Propellant is a flammable gas.
<b>Flammability Limits:</b> LEL: 2.1% (Isobutane)	UEL: 27.0%(Dimethyl ether)

## 10. Stability and Reactivity

**Stability:** Stable

**Conditions To Avoid:** Avoid heat and direct sunlight. Do not puncture container.

**Incompatibility:** Oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition will generate oxides of carbon and silicon and formaldehyde.

## 11. Toxicological Information

### Acute Hazards:

**Inhalation:** No adverse effects expected from the normal use of this product.

**Skin Contact:** Prolonged or repeated contact may cause mild irritation in some individuals.

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

**Ingestion:** Swallowing may cause gastrointestinal disturbances.

**Chronic Hazards:** None currently known.

**Medical Conditions Aggravated By Exposure:** None currently known.

**Carcinogen:** None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

### Acute Toxicity Values:

Propane: LC50 Rat inhalation >800,000 ppm

Isobutane: LC50 Rat inhalation 658 mg/l/4 hr

Dimethyl ether: LC50 Rat inhalation 308,000 mg/m3

## 12. Ecological Information

No ecotoxicity data is currently available. This product is not expected to be harmful to the environment.

## 13. Disposal Considerations

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



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Do not incinerate or place container into trash compactor.

### 14. Transport Information

**DOT Hazardous Materials Description:** Consumer Commodity ORMD

**Canadian TDG Hazardous Materials Description:** Consumer Commodity. Limited Quantity.

**IMDG Dangerous Goods Description:** UN1950, Aerosols, 2.2

### 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):** 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): None

#### Canada:

**Canadian WHMIS Classification:** Class A (Compressed Gas)

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

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

### 16. Other Information

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

REVISION SUMMARY: 12/28/11: Change to sections 14, and 16.

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