



# 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® Outlast™ Tire Glaze

**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:** 08/13/14

**Product Use and Uses Advised Against:** Automotive maintenance product – Consumer product

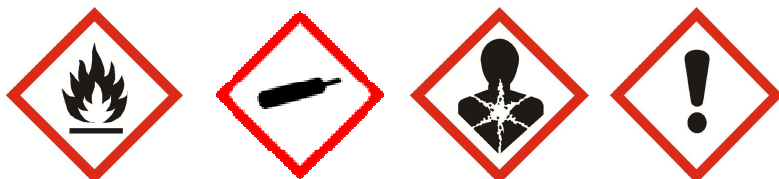
### 2. Hazards Identification

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 Irritant Category 2A Skin Sensitizer Category 1 Specific Target Organ Toxicity – Single Exposure Category 1

**GHS Label Elements:**



Danger!

#### Statements of Hazard

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes serious eye irritation  
May cause an allergic skin reaction  
Causes damage to eyes.

#### Prevention

Keep away from heat, sparks, open flames, and hot surfaces. -  
No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Do not breathe mist, vapors, or spray.  
Wash exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.



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Wear protective gloves, protective clothing, and eye protection.  
IF ON SKIN: Wash with plenty of water and soap.  
If skin irritation or rash occurs: Get medical attention.  
Wash contaminated clothing before reuse.  
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 exposed or concerned: Call a POISON CENTER or doctor.  
Call a POISON CENTER or doctor if you feel unwell.  
Store locked up.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents and container in accordance with local and national regulations.

### 3. Composition/Information On Ingredients

Component	CAS No.	Amount
1,1-difluoroethane (Propellant)	75-37-6	40-60%
Decamethylcyclopentasiloxane	541-02-6	10-20%
Methyltrimethoxysilane	1185-55-3	<3%
Titanium, Bis(Ethyl 3- Oxobutanoato-01',03) Bis(2-Methyl-1-Propanolato)-	83877-91-2	<3%
Octamethylcyclopentasiloxane	556-67-2	<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 symptoms persist.

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

**Eye Contact:** Immediately flush eyes with large amounts of water for 15 minutes. If irritation or other symptoms persist, get 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.

**Most Important Symptoms:** May cause eye irritation. High concentrations may cause irritation to the respiratory tract. May cause an allergic skin reaction in sensitive individuals. May hydrolyze upon contact with body fluids in the gastrointestinal tract to produce methanol causing nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death. May cause permanent blindness.

**Indication of Immediate Medical Attention/Special Treatment:** Immediate medical attention is required for large ingestions.



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### 5. Firefighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use water fog, foam, carbon dioxide or dry chemical.

**Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Contents under pressure. Closed containers may rupture if exposed to extreme heat. Thermal decomposition will generate oxides of carbon and silicon and formaldehyde.

**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.

### 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 as described in section 8.

**Methods and Materials for Containment and Clean-Up:** Place leaking can in a well-ventilated area until propellant has dissipated, if safe to do so. Collect liquid using non-combustible absorbents and place into a suitable container for disposal.

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

### 7. Handling and Storage

**Precautions for Safe Handling:** Keep away from heat, sparks, flames, pilot lights, electric motors and all other sources of ignition. Do not spray on hot surfaces. Do not smoke while using. Keep can away from sources of electricity. Use only outdoors or in a well-ventilated area. Avoid breathing spray. Avoid contact with eyes and skin. Wash with soap and water after use. 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
Decamethylcyclopentasiloxane	None Established
Methyltrimethoxysilane	None Established
Titanium, Bis (Ethyl 3- Oxobutanoato-01',03) Bis(2-Methyl-1-Propanolato)-	None Established
Octamethylcyclopentasiloxane	None Established

**Appropriate Engineering Controls:** Use outdoors or with good general ventilation.



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### 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 local and national regulations; and good industrial hygiene practice.

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

**Eye Protection:** Avoid eye contact. Always spray away from face. Safety glasses 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 viscous liquid with a slight odor in an aerosol can.

<b>Physical State:</b> Liquid-based aerosol	<b>Odor Threshold:</b> Not available
<b>pH:</b> Not determined	<b>Relative Density:</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> Insoluble	<b>Percent Volatile:</b> Not determined
<b>Viscosity:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>VOC Content:</b> Not determined
<b>Flash Point:</b> < -58°F (-50°C) (1,1-difluoroethane)	<b>Autoignition Temp:</b> Not determined
<b>Flammability Limits:</b> LEL: 3.9%(1,1-difluoroethane) UEL: 16.9% (1,1-difluoroethane)	<b>Flame extension:</b> Not determined
<b>Decomposition Temperature:</b> Not available	<b>Flammability (solid, gas):</b> Not applicable

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive

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

**Conditions to Avoid:** Keep away from excessive heat, sparks and open flames. Avoid direct sunlight. Do not puncture container. Containers may rupture at temperatures > 120°F (48.8°C)

**Incompatible Materials:** Strong oxidizing agents. Water.

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

## 11. Toxicological Information

### Potential Health Effects:

#### Acute Hazards:

**Inhalation:** High concentrations may cause irritation to the respiratory tract. Titanium, Bis(Ethyl 3- Oxobutanoato-01',03) Bis(2-Methyl-1-Propanolato)-, hydrolyzes to isobutyl alcohol that may cause minor irritation of the nose and



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throat with sneezing, sore throat or runny nose. 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:** Titanium, Bis(Ethyl 3- Oxobutanoato-01',03) Bis(2-Methyl-1-Propanolato)-, hydrolyzes to isobutyl alcohol that may cause irritation in some individuals. Repeated and/or prolonged exposure may cause defatting of the skin with itching, redness or rash.

**Eye Contact:** Eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

**Ingestion:** Up to 70% of methyltrimethoxysilane will hydrolyze upon contact with body fluids in the gastrointestinal tract to produce methanol: Causing nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death. May cause permanent blindness. There may be a delay of several hours between swallowing and the onset of signs and symptoms.

**Chronic Effects:** Prolonged overexposure may cause liver, kidney, and heart damage.

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

### Acute Toxicity Values:

Calculated ATE:           LD50 Oral 4854 mg/kg  
                                  LD50 Skin 14563 mg/kg  
                                  LC50 Inhalation 145 mg/L

1,1-difluoroethane:       LC50 Inhalation Rat: > 437500 ppm / 4 hr.

Decamethylcyclopentasiloxane:  
                                  LD50 Oral Rat: 34600 mg/kg  
                                  LD50 Skin Rabbit: >2000 gm/kg  
                                  LC50 Inhalation Rat: 8.67 mg/L/ 4hr

Methyltrimethoxysilane: LD50 Oral Rat: > 11685 mg/kg  
                                  LD50 Skin Rat: > 9500 mg/kg  
                                  LC50 Inhalation Rat: >26000 / 4 hr.

Titanium, Bis (Ethyl 3- Oxobutanoato-01',03) Bis(2-Methyl-1-Propanolato)-:  
                                  LD50 Oral Rat: >2000 mg/kg

Octamethylcyclopentasiloxane:  
                                  LD50 Oral Rat: > 4800 mg/kg  
                                  LD50 Skin Rat: > 2400 mg/kg  
                                  LC50 Inhalation Rat: 36 mg/L/4 hr.

Methanol:                   LD50 Oral Rat: 9100 mg/kg  
                                  LD50 Skin Rabbit: 15,940 mg/kg  
                                  LC50 Inhalation Rat: 145,000 ppm/1hr



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### 12. Ecological Information

#### Ecotoxicity:

Decamethylcyclopentasiloxane: LC50 Rainbow Trout >16ug/L/96 hr.  
Methyltrimethoxysilane: LD50: Oncorhynchus mykiss >110 mg/L/96 hr.  
EC50: Daphnia Magna: >122 mg/L/48 hr.  
Titanium, Bis (Ethyl 3- Oxobutanoato-01',03) Bus(2-Methyl-1-Propanolato)-: EC50: Daphnia Magna: 1220 mg/L/48 hr.

#### Persistence and Degradability:

Decamethylcyclopentasiloxane: 0.14 % 28 Days  
Methyltrimethoxysilane: 99% in 28 days.  
Octamethylcyclopentasiloxane: 3.7% in 29 days

#### Bio accumulative Potential:

Decamethylcyclopentasiloxane: BCF 13300  
Methyltrimethoxysilane: Low potential for bio-accumulation.  
Octamethylcyclopentasiloxane: BCF 12400

#### Mobility in Soil:

Decamethylcyclopentasiloxane: Expected to be immobile in soil.  
Octamethylcyclopentasiloxane: Expected to be immobile in soil.

**Other Adverse Effects:** No data available

### 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Do not incinerate or place container into trash compactor.

### 14. Transport Information

**DOT Hazardous Materials Description:** UN1950, Aerosols, Class 2.1, LTD QTY

**IMDG Dangerous Goods Description:** UN1950, Aerosols, Class 2.1, LTD QTY

**Canadian TDG Hazardous Materials Description:** UN1950, Aerosols, Class 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):** Acute Health, Chronic Health, Fire Hazard, Sudden Release of Pressure



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**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 B - Division 5 (Flammable Aerosol); Class D - Division 2 - Subdivision B - (Toxic material causing other toxic effects)

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

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

### **16. Other Information**

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

REVISION SUMMARY: August 13, 2014: Changes to sections 2 & 15.

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