



Material 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)

MSDS Date Of Preparation: 08/12/13

Product Use: Automotive maintenance product – Consumer product

2. Hazards Identification

EMERGENCY OVERVIEW

DANGER! Extremely Flammable Aerosol. May cause eye and skin irritation. May be harmful if swallowed. Contents under pressure. May have chronic health effects.

3. Composition/Information On Ingredients

Component	CAS No.	Amount
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%
Propellant (1,1-difluoroethane)	75-37-6	40-60%
Non-hazardous Ingredients	Proprietary	15-30%

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.

5. Firefighting Measures

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

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus



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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: Extremely flammable aerosol. 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 formaldehyde.

6: Accidental Release Measures

Personal Precautions: Eliminate all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing and equipment as described in section 8.

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

Methods 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.

7. Handling and Storage

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. 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
Decamethylcyclopentasiloxane	10 ppm TWA Manufacturer recommended
Methyltrimethoxysilane	None Established
Titanium, Bis(Ethyl 3- Oxobutanoato-01',03) Bis(2-Methyl-1-Propanolato)-	None Established
Propellant (1,1-difluoroethane)	1000 ppm AIHA WEEL

Ventilation: Use outdoors or with good general ventilation.

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 local and national regulations; and good industrial hygiene practice.

Gloves: None required for normal use.

Eye Protection: Avoid eye contact. Always spray away from face. Safety glasses are recommended if needed.

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



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9. Physical and Chemical Properties

Appearance And Odor: Opaque, white viscous liquid with a slight odor in an aerosol can.

pH: Not determined	Specific Gravity: Not determined
Boiling Point: Not determined	Vapor Pressure: Not determined
Freezing Point: Not determined	Vapor Density: Not determined
Solubility In Water: Insoluble	Percent Volatile: Not determined
Viscosity: Not determined	Evaporation Rate: Not determined
Coefficient Of Water/Oil Distribution: Not determined	Autoignition Temp: Not determined
Flash Point: < -58°F (-50°C) (1,1-difluoroethane)	
Flammability Limits: LEL: 3.9%(1,1-difluoroethane)	UEL: 16.9% (1,1-difluoroethane)

10. Stability and Reactivity

Stability: Stable

Conditions To Avoid: Keep away from heat, sparks and open flames. Avoid direct sunlight. Do not puncture container.

Incompatibility: Strong oxidizing agents. Water.

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

11. Toxicological Information

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 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: Methyltrimethoxysilane 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. There may be a delay of several hours between swallowing and the onset of signs and symptoms.

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

Medical Conditions Aggravated By Exposure: This product may aggravate an existing dermatitis. Breathing of vapors may aggravate asthma and inflammatory or fibrotic pulmonary disease.

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



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OSHA.

Acute Toxicity Values:

Methyltrimethoxysilane: LD50 Rat Oral > 2,000 mg/kg
LD50 Rabbit Dermal > 2,000 mg/kg

12. Ecological Information

No ecotoxicity data is currently 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

Canadian TDG Hazardous Materials Description: UN1950, Aerosols, Class 2.1, LTD QTY

IMDG Dangerous Goods 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

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 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.



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16. Other Information

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

REVISION SUMMARY: 9/23/2013: Change to section 1. Added TM.

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