



# 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® Custom Shield – All Colors  
**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:** 11/26/13

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

### 2. Hazards Identification

**GHS Classification:**

Physical:	Environmental	Health:
Aerosol Category 1	Acute Aquatic Toxicity Category 2 Chronic Aquatic Toxicity Category 2	Skin Irritant Category 2 Aspiration Hazard Category 1 Target Organ Toxicity Single Exposure Category 3 Carcinogen Category 2

**GHS Label Elements:**



**Danger!**

**Statements of Hazard**

Extremely flammable aerosol.  
Pressurized container: may burst if heated.  
Causes skin irritation.  
May be fatal if swallowed and enters airways.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Toxic to aquatic life with long lasting effects.

**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.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, and eye protection.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
Do NOT induce vomiting.  
IF ON SKIN: Wash with plenty of water and soap.



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If skin irritation occurs: Get medical advice, or attention.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Wash exposed skin thoroughly after handling.  
Take off contaminated clothing.  
IF exposed or concerned: Get medical advice.  
Avoid release to the environment.  
Collect spillage.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Protect from sunlight. Do not exposure 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
Propane	74-98-6	25-27
VM&P Naphtha	64742-89-8	23-25
Heptane	426260-76-6 / 64742-49-0	13-15
N-Butane	106-97-8	8-10
Xylene	1330-20-7	5-7
Methyl Ethyl Ketone	78-93-3	2-4
Methyl n-Amyl Ketone	110-43-0	2-4
Ethyl benzene	100-41-4	1-2
Carbon Black (In Black, Aluminum and Graphite colors only.)	1333-86-4	0-1

### 4. First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention if symptoms appear and persist.

**Skin Contact:** Remove contaminated clothing and launder before reuse. Wash exposed skin with soap and water. If skin irritation or redness develops, get medical attention.

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

**Ingestion:** Aspiration hazard. DO NOT induce vomiting. If the victim is fully conscious, have them rinse their mouth with water. Get immediate 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, skin and respiratory tract irritation. Inhalation of mists or vapors may cause respiratory irritation and central nervous system effects such as dizziness, drowsiness, headache and nausea. Harmful or fatal if swallowed. Aspiration into the lungs during swallowing or vomiting may cause lung damage. Ingestion may also cause gastrointestinal effects such as nausea, vomiting and diarrhea and central nervous system effects.



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**Indication of Immediate Medical Attention/Special Treatment:** Ingestion of the liquid contents of this product is an aspiration hazard, and would require immediate medical attention.

### 5. Firefighting Measures

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

**Specific Hazards Arising from the Chemical:**

**Unusual Fire Hazards:** Extremely flammable aerosol and liquid. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Vapors may be explosive in confined areas. Vapor will collect in low lying areas. Contents under pressure. Closed containers may rupture if exposed to extreme heat.

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

**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.

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

**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. Use non-sparking tools and equipment.

### 7. Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin, and clothing. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Do not smoke while using. Do not spray on hot surfaces or electrical equipment. Wash thoroughly with soap and water after handling. Keep out of the reach of children. 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

### 8. Exposure Controls / Personal Protection

**Exposure Guidelines:**

CHEMICAL	EXPOSURE LIMIT
Propane	1000 ppm TWA OSHA PEL 1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
VM&P Naphtha	None Established



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Heptane (As Heptane isomer)	500 ppm TWA OSHA PEL 400 ppm TWA ACGIH TLV, 500 ppm STEL
N-Butane	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
Xylene	100 ppm TWA OSHA PEL 100 ppm TWA ACGIH TLV, 150 ppm STEL
Methyl Ethyl Ketone	200 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV, 300 ppm STEL
Methyl n-Amyl Ketone	100 ppm TWA OSHA PEL 50 ppm TWA ACGIH TLV
Ethyl benzene	100 ppm TWA OSHA PEL 20 ppm TWA, 125 ppm STEL ACGIH TLV
Carbon Black (In Black, Aluminum and Graphite colors only.)	3.5 mg/m3 TWA OSHA PEL 3 mg/m3 (inhaleable) TWA ACGIH TLV

**Appropriate Engineering Controls:** Use only with ventilation equivalent to outdoors. For operations where the TLV 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:** For operations where the TLV may be exceeded, a respirator approved by the local authority 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 all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** Impervious gloves are recommended if needed to avoid contact.

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

**Other Protective Equipment/Clothing:** Use protective equipment if needed to avoid skin contact and contamination of personal clothing.

## 9. Physical and Chemical Properties

**Appearance and Odor:** Syrupy liquid with a solvent odor in an aerosol can.

<b>Physical State:</b> Liquid-based aerosol	<b>Odor Threshold:</b> Not available
<b>pH:</b> Not determined	<b>Specific Gravity:</b> 0.675
<b>Initial Boiling Point/Range:</b> <1 -285°F (<-17.2 -- 140.5°C)	<b>Vapor Pressure:</b> 750 mm Hg @ 20°C
<b>Melting/Freezing Point:</b> Not determined	<b>Vapor Density: (Air = 1)</b> >1
<b>Solubility In Water:</b> Insoluble	<b>Percent Volatile:</b> 87.2957%
<b>Viscosity:</b> Not determined	<b>Evaporation Rate: (Butyl Acetate = 1)</b> >4.6
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>VOC Content:</b> Not determined
<b>Flash Point:</b> < -25°F (<31.6°C) (Propellant)	<b>Autoignition Temp:</b> Not determined
<b>Flammability Limits:</b> LEL: 0.9% UEL: 11.5%	<b>Flammability (solid, gas):</b> Propellant is a flammable gas.
<b>Decomposition Temperature:</b> Not available	



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

**Incompatible Materials:** Strong oxidizing agents, reducing agents and acids.

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

### 11. Toxicological Information

#### **Potential Health Effects:**

#### **Acute Hazards:**

**Inhalation:** Inhalation of vapors may cause upper respiratory tract irritation with coughing and sneezing. High vapor concentrations may cause headache, dizziness, weakness, nausea and vomiting.

**Skin Contact:** May cause irritation. Prolonged skin contact may defat the skin and produce dermatitis.

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

**Ingestion:** Aspiration hazard. Aspiration into the lungs during swallowing or vomiting may result in severe lung damage which may be fatal. Swallowing may cause gastrointestinal effects such as nausea, vomiting and diarrhea and central nervous system effects.

**Chronic Effects:** Prolonged or repeated overexposure may cause adverse effects on the nervous system, blood, kidneys, and liver.

**Carcinogen Listing:** Ethyl benzene, and Carbon Black are classified by IARC as a possible human carcinogens (group 2B). None of the other components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

#### **Acute Toxicity Values:**

Product (Calculated): LD50 oral > 5,000 mg/kg; LD50 Skin > 5,000 mg/kg

Heptane: LC50 Rat inhalation 103,000 mg/m<sup>3</sup>/4 hr.

Propane: LC50 Rat inhalation >800,000 ppm

N-Butane: LC50 Rat inhalation 658 mg/m<sup>3</sup>/4 hr.

Xylene: LD50 Rat oral 4,300 mg/kg; LD50 Rabbit skin > 1,700 mg/kg; LC50 Rat inhalation >5,000 ppm/4 hr.

Methyl Ethyl Ketone: LD50 Rat oral 3,400 mg/kg; LD50 Rabbit skin > 8,000 mg/kg;

LC50 Rat inhalation >5,000 ppm/6 hr

Methyl n-Amyl Ketone: LD50 Rat oral 1,670 mg/kg; LD50 Rabbit skin 12,600 mg/kg

Ethyl benzene: LD50 Oral Rat: 3500 mg/kg; LD50 Skin Rabbit >17,800 mg/kg

Carbon Black: LD50 Oral Rat > 15,400 mg/kg; LD50 Skin Rabbit > 3,000mg/kg

### 12. Ecological Information

#### **Ecotoxicity:**

No ecotoxicity data is currently available for product.

Heptane: 96 hr. LC50 Mysidopsis bahia (Opossum shrimp) 0.1 mg/L,



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96 hr. LC50 Chaetogammarus marinus 0.2 mg/L  
Xylene: 24 hr. LC50 daphnia magna 150 mg/L; 96 hr. EC50 Lepomis macrochirus (bluegill) 12.0 mg/L,  
96 hr. LC50 Fathead minnow 26.7 mg/mL  
Methyl Ethyl Ketone: 48 hr. EC50 daphnia magna 1382 mg/L; 96 hr. EC50 Lepomis macrochirus (bluegill) 1690 mg/L  
Methyl n-Amyl Ketone: 96 hr. LC50 Fathead minnow 131 mg/mL  
Ethyl benzene: 96 hr. EC50 Lepomis macrochirus (bluegill) 32.0 mg/L

### **Persistence and Degradability:**

Heptane: n-Heptane is expected to biodegrade in soil based on 100% degradation after 4 and 25 days in screening tests using gasoline contaminated soil and activated sewage sludge inocula, respectively.

Xylene, Methyl ethyl ketone : Readily biodegradable.

Propane: Utilized by Micro bacterium vaccae, & is readily degraded by soil bacteria.

Methyl n-Amyl Ketone: A 5 day theoretical BOD of 44%

Ethyl benzene: Readily biodegradable.

### **Bioaccumulative Potential:**

Heptane: The potential for bio concentration in aquatic organisms is very high.

Methyl Ethyl Ketone: An estimated BCF of 3 - potential for bio concentration in aquatic organisms is low

The BCF for xylene is 6-23.4, for ethyl benzene is 15 which suggests bioaccumulation is low to moderate in aquatic organisms.

Methyl n-Amyl Ketone: An estimated BCF of 7 - potential for bio concentration in aquatic organisms is low

### **Mobility in Soil:**

Heptane: Immobile.

Methyl Ethyl Ketone: Very high.

Propane: Moderate.

Methyl n-Amyl Ketone: Moderate

Ethyl benzene: Low

**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, Marine Pollutant

## 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 an RQ of 1,428 lbs. based on the RQ for xylene of 100 lbs. present at 7% maximum. Oil spills must be reported to the National Response Center. Many states have more stringent release



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reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Sudden Release of Pressure, Acute Health, Chronic Health, Fire Hazard

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

Xylene	7%	(CAS# 1330-20-7)
Ethylbenzene	2%	(CAS# 100-41-4)

### 16. Other Information

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

REVISION SUMMARY: Change to section 3.

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