



## 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:** Tuff Stuff® Bug Remover

**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:** 05/16/2015

**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>
Not Hazardous	Eye Irritant Category 2A Skin Sensitizer Category 1

**GHS Label Elements:**



**WARNING!**

<b>Statements of Hazard</b>	<b>Precautionary Phrases</b>
Causes serious eye irritation May cause an allergic skin reaction.	Wash exposed skin thoroughly after handling. Avoid breathing vapors, mist, or spray. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection, and protective gloves. 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 ON SKIN: Wash with plenty of water and soap.



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If skin irritation or rash occurs: Get medical attention.  
Take off contaminated clothing and wash it before reuse.

**Hazards not otherwise specified:** None

**Percentage of unknown toxicity:** N/A

### 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water and Non-Hazardous ingredients.	Mixture	85-95%
Alcohols, ethoxylated	Proprietary	< 5%
Surfactant	Proprietary	< 5%
d-Limonene	94266-47-4	< 2%
Sodium hydroxide	1310-73-2	<0.3%

**The specific identity and/or exact percentage (concentration) of composition has been withheld as 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:** Rinse skin with plenty of water. If skin irritation or rash develops, seek medical attention.

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

**Ingestion:** Do not induce vomiting unless directed to by a doctor or physician. If the victim is fully conscious, have them rinse their mouth with 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:** Eye contact causes irritation. May cause mild skin and respiratory irritation. May cause allergic skin reaction in some individuals.

**Indication of Immediate Medical Attention/Special Treatment:** Immediate medical attention should not be required.

### 5. Firefighting Measures

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

**Specific Hazards Arising from the Chemical:** Closed containers may rupture if exposed to extreme heat. Thermal decomposition will generate Oxides of carbon and unknown materials.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.



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### 6: Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Wear appropriate protective equipment. Ventilate the area.

**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

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid contact with skin and clothing. Avoid breathing vapors or mists. Wash exposed skin with soap and water after use. Keep out of the reach of children.

**Conditions for Safe Storage, Including any Incompatibilities:** No special storage required.

### 8. Exposure Controls / Personal Protection

#### Exposure Guidelines:

CHEMICAL	EXPOSURE LIMIT
Water and Non-Hazardous ingredients	None Established
Alcohols, ethoxylated	None Established
Surfactant	None Established
d-Limonene	None Established
Sodium hydroxide	2 mg/m <sup>3</sup> Ceiling ACGIH TLV 2 mg/m <sup>3</sup> TWA OSHA PEL

**Engineering Controls:** General ventilation should be adequate for all normal use. For operations where the recommended exposure limits are exceeded, forced ventilation such as local exhaust may be needed.

#### Personal Protective Equipment

**Respiratory Protection:** None required under normal use conditions. For applications where exposures may be excessive use a NIOSH approved organic vapor/dust mist respirator (mask) with appropriate eye protection. A full facepiece respirator provides both eye and respiratory protection. For higher concentrations an approved supplied air respirator (with escape bottle if required) or self-contained breathing apparatus may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Gloves:** Rubber or other impervious gloves are recommended.

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

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



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## 9. Physical and Chemical Properties

**Appearance and Odor:** Viscous liquid.

<b>Physical State:</b> Liquid	<b>Odor Threshold:</b> Not available
<b>pH:</b> 12.5 (Alkali reserve: $\leq 0.2$ gm NaHO)	<b>Specific Gravity:</b> ~1.0
<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> Not determined	<b>Percent Volatile:</b> >90%
<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> >104°C (>220°F)	<b>Autoignition Temp:</b> Not determined
<b>Decomposition Temperature:</b> Not determined	<b>Flammability Limits:</b> LEL: Not determined UEL: Not determined
<b>Flammability (solid, gas):</b> Not applicable	

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive

**Chemical Stability:** Stable.

**Possibility of Hazardous Reactions:** None known

**Conditions To Avoid:** None known

**Incompatible Materials:** Strong oxidizing agents.

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

## 11. Toxicological Information

### POTENTIAL HEALTH EFFECTS:

#### Acute Hazards:

**Inhalation:** May cause mild irritation to mucous membranes and upper respiratory tract.

**Skin Contact:** May cause allergic skin reaction (sensitization) with itching or rash in susceptible individuals. May cause mild skin irritation.

**Eye Contact:** Causes eye irritation with redness, pain and tearing.

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

**Chronic Hazards:** Prolonged exposure to dilute solutions may cause dermatitis.

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

#### Acute Toxicity Values:

Product ATE: LD50 Oral > 5,000 mg/kg  
LD50 Skin > 2,000 mg/kg



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Water and Non-Hazardous ingredients: Not acutely toxic.  
Alcohols, ethoxylated: LD50 Oral Rat 1,378 mg/kg  
LD50 Skin Rabbit 5,000 mg/kg

Surfactant: LD50 Oral Rat >2,000 mg/kg  
LD50 Skin Rabbit >2,000 mg/kg

d-Limonene: LD50 Oral Rabbit >5,000 mg/kg  
LD50 Skin Rabbit >5,000 mg/kg

Sodium Hydroxide: LD50 Oral Rat: 140-340 mg/kg  
LD50 Skin Rabbit: 1,350 mg/kg

### 12. Ecological Information

#### **Ecotoxicity:**

Alcohols, ethoxylated: LC50: Oncorhynchus mykiss 2.4 mg/L/96 hr  
Surfactant: LC50: Trout 240 mg/L/96 hr.  
EC50: Algae 180 mg/L/72 hr.

**Persistence and Degradability:** No data available

**Bio accumulative Potential:** No data available

**Mobility in Soil:** No data available

**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:** Not Regulated

**Canadian TDG Hazardous Materials Description:** Not Regulated

**IMDG Dangerous Goods Description:** Not Regulated

### 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.



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**SARA Hazard Category (311/312):** Acute Health

**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 Environmental Protection Act:** All of the ingredients are listed on the Canadian DSL or the 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: 0	Instability: 0
HMIS Rating:	Health: 2	Fire: 0	Physical Hazard: 0

REVISION SUMMARY: May 16, 2015 Update to GHS SDS format and name change: Changes to all sections.

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