



® 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® Multi-Purpose Foam Cleaner

*Tuff stuff multi-purpose
foam cleaner*

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: 07/09/2015

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:

Physical:	Health:
Flammable Aerosol Category 1	Eye Irritant Category 2A
Gases Under Pressure: Compressed Gas	Skin Irritant Category 2

GHS Label Elements:



Danger!

Statements of Hazard	Precautionary Phrases
Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation.	Prevention Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized Container. Do not pierce or burn, even after use. Wash exposed skin thoroughly after handling. Wear protective gloves, and eye protection.



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Response

IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it 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.

Storage

Protect from sunlight. Do not exposure to temperatures exceeding 50°C / 122°F.

Hazards not otherwise specified: None

Percentage of unknown toxicity: N/A

3. Composition/Information On Ingredients

Component	CAS No.	Amount
Isobutane (Propellant)	75-28-5	3-7%
Ethylene glycol monobutyl ether	111-76-2	1-3 %
Sodium metasilicate pentahydrate	6834-92-0	<1.0%
C12-15 Alcohol Ethoxylate	68131-39-5	<1.0%

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: Wash exposed skin with plenty of soap and water. Remove contaminated clothing, and launder before reuse. If skin irritation or redness develops, seek medical attention.

Eye Contact: Flush eyes with large amounts of water for 15 minutes. 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.

Most Important Symptoms: Eye contact causes serious irritation. Causes skin irritation.

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

5. Firefighting Measures

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

Specific Hazards Arising from the Chemical: Contents under pressure. Keep away from ignition source and open flames. Exposure of containers to heat and flames can cause them to rupture, often with violent force.



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Thermal decomposition will generate oxides of carbon.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. 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.

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 inert material and place into a suitable container for disposal. Rinse area with water.

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

7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes, 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.

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
Isobutane	1000 ppm TWA ACGIH TLV
Ethylene glycol monobutyl ether	50 ppm TWA OSHA PEL (Skin) 20 ppm TWA ACGIH TLV
Sodium metasilicate pentahydrate	None established
C12-15 Alcohol Ethoxylate	None established

Appropriate Engineering Controls: General ventilation should be adequate for normal use.

Personal Protective Equipment

Respiratory Protection: None under normal use conditions.

Gloves: None normally required. Protective gloves recommended to avoid skin contact.

Eye Protection: None required for normal use. Eye protection recommended to avoid eye contact.

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



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9. Physical and Chemical Properties

Appearance And Odor: White foam in an aerosol can with a citrus odor

Physical State: Liquid-based aerosol	Odor Threshold: Not determined
pH: 12 – 13 (0.34 g NaOH alkali reserve)	Vapor Pressure: Not determined
Initial Boiling Point/Range: Not determined	Vapor Density: Not determined
Melting/Freezing Point: Not determined	Percent Volatile: 98%
Solubility In Water: 100%	Evaporation Rate: <1
Viscosity: Not determined	VOC Content: Not determined
Specific Gravity: ~1	Autoignition Temp: Not determined
Coefficient Of Water/Oil Distribution: Not determined	Flammability (solid, gas): Propellant is a flammable gas.
Flash Point: No Flash (Liquid component);	Decomposition Temperature: Not available
Flammability Limits: LEL: Not determined	UEL: Not determined

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Conditions to Avoid: Avoid heat and direct sunlight. Containers may rupture at temperatures > 120°F (48.8°C).

Incompatible Materials: Strong oxidizing agents.

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

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

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

Skin Contact: Causes skin irritation.

Eye Contact: Contact causes eye irritation with redness and tearing.

Ingestion: Ingestion is an unlikely route exposure for aerosol products. Swallowing may cause gastrointestinal disturbances.

Chronic Effects: None known for mixture.

Ethylene glycol monobutyl ether: In animals, effects have been reported on the following organs: blood (hemolysis) and secondary effects on the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.

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



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ATE Inhalation: > 5 mg/l

Isobutane: LC50 Rat inhalation 570,000 ppm / 15 min

Ethylene glycol monobutyl ether: LD50 Rat oral 1,746 mg/kg; LD50 Rabbit dermal >2000 mg/kg
LC50 Rat inhalation 2.2 mg/L/ 4 hr.

Sodium metasilicate pentahydrate: LD50 Oral Rat: 1,153 mg/kg; LD50 Rat dermal >5,000 mg/kg.

Alcohols C12-15 Ethoxylated: LD50 Oral Rat: >5,000 mg/kg; LD50 Rat dermal >2,000 mg/kg.

12. Ecological Information

Ecotoxicity: No ecotoxicity data is currently available for product.

Ethylene glycol monobutyl ether:

LC50 Lepomis macrochirus (Bluegill) 1,490 mg/L/96 hr.

LC50 Daphnia magna (Water flea) 1,720 mg/L/24 hr.

Sodium metasilicate pentahydrate:

LC50: Brachydanio rerio 210 mg/L/96 hr.

Alcohols C12-15 Ethoxylated:

LC50 Oncorhynchus mykiss (Rainbow trout) 1.3 -1.7 mg/L/96 hr.

Persistence and Degradability: No data available for product.

Bio accumulative Potential: No data available for product.

Mobility in Soil: No data available for product.

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, 2.1, Ltd Qty

IMDG Dangerous Goods Description: UN1950, Aerosols, 2.1, Ltd Qty

IATA International Air Transport Association: UN1950, Aerosols flammable, 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): Fire Hazard, Sudden Release of Pressure, Acute Health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements

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Under SARA Title III, Section 313 (40 CFR 372):

Ethylene glycol monobutyl ether (As Glycol Ethers) CAS# 111-76-2 at 3%

Canada:

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

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

DATE OF CURRENT REVISION: 07/09/2015

REVISION SUMMARY: Update to OSHA Hazcom 2012 GHS format.

DATE OF PREVIOUS REVISION: 10/03/2013

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