



## ® Material Safety Data Sheet

### The Armor All/STP Products Company

39 Old Ridgebury Road  
Danbury, CT 06810  
Tel. 1-203-205-2900

### 1. Product And Company Identification

**Product Name:** Tuff Stuff ® Industrial Strength Cleaner & Degreaser

**Responsible Party:** The Armor All/STP Products Company  
39 Old Ridgebury Road  
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:** 08/31/11

**Product Use:** Cleaning product – For consumer use

### 2. Hazards Identification

#### EMERGENCY OVERVIEW

WARNING: Eye irritant. Prolonged skin contact may cause irritation and dryness.

### 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Diethylene glycol monobutyl ether	112-34-5	<3%
Sodium Metasilicate	6834-92-0	<2%
Non-Hazardous Ingredients	Mixture	Balance

### 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 soap and water. 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:** DO NOT induce vomiting. 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.

### 5. Firefighting Measures

**Extinguishing Media:** Use any media that is suitable for the surrounding fire. Cool fire exposed containers with water.

**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.

**Unusual Fire Hazards:** Closed containers may rupture if exposed to extreme heat.



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**Hazardous Combustion Products:** None known.

## 6: Accidental Release Measures

**Personal Precautions:** Wear appropriate protective equipment.

**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

Do not get in eyes. Avoid prolonged contact with skin and clothing. For prolonged use or sensitive skin wear rubber gloves. Do not use or mix with bleach-containing products. To do so will release hazardous gases. Rinse exposed skin with water after use. Not for personal cleansing. Keep out of the reach of children.

No special storage required.

## 8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Diethylene glycol monobutyl ether	35 ppm TWA manufacturer recommended
Sodium metasilicate	None Established
Non-Hazardous Ingredients	None Established

**Ventilation:** General ventilation should be adequate for all normal use.

**Respiratory Protection:** None required under normal use conditions.

**Gloves:** None normally required. Avoid prolonged skin contact. Impervious gloves such as rubber, neoprene or nitrile can be used if needed to avoid prolonged or repeated skin contact.

**Eye Protection:** Safety glasses or goggles 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:** Clear, colorless liquid with a slight odor.

<b>pH:</b> 12-13	<b>Specific Gravity:</b> ~1.0
<b>Boiling Point:</b> Not determined	<b>Vapor Pressure:</b> Same as water
<b>Freezing Point:</b> Not determined	<b>Vapor Density:</b> Same as water
<b>Solubility In Water:</b> Complete	<b>Percent Volatile:</b> >85%
<b>Viscosity:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Viscosity:</b> Not available
<b>Flash Point:</b> >200°F (93.3°C)	<b>Autoignition Temp:</b> Not applicable



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<b>Flammability Limits:</b>	LEL: Not applicable	UEL: Not applicable
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### 10. Stability and Reactivity

**Stability:** Stable

**Conditions To Avoid:** None known.

**Incompatibility:** Bleach and bleach-containing materials.

**Hazardous Decomposition Products:** None known

### 11. Toxicological Information

#### Acute Hazards:

**Inhalation:** Inhalation of mists may cause upper respiratory tract irritation.

**Skin Contact:** Prolonged or repeated contact may cause irritation and drying.

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

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

**Chronic Hazards:** Diethylene glycol monobutyl ether has caused adverse effects on the blood, liver and kidneys in laboratory animal studies.

**Medical Conditions Aggravated By Exposure:** May aggravate an existing dermatitis.

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

#### Acute Toxicity Values:

Diethylene glycol monobutyl ether: LD50 Oral Rat: >5660 mg/kg; LD50 Dermal Rabbit 4000 mg/kg (est)  
Sodium metasilicate: LD50 Oral Rat: 1153 mg/kg

### 12. Ecological Information

No ecotoxicity data is currently available. This product may be harmful to aquatic life if released directly to the environment.

### 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



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## 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

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

### Canada:

**Canadian WHMIS Classification:** 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 Domestic Substances List.

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.

## 16. Other Information

NFPA Rating (NFPA 704):	Health: 1	Fire: 0	Instability: 0
HMIS Rating:	Health: 1	Fire: 0	Reactivity: 0

REVISION SUMMARY: New MSDS

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