



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® Industrial Strength Cleaner & Degreaser

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: 02/05/15

Product Use and Uses Advised Against: Auto cleaning product – For consumer 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: |
|---------------|--|
| Non-Hazardous | Skin Irritation Category 2 Eye Irritation Category 2A |

GHS Label Elements:



WARNING!

Statements of Hazard

Causes skin irritation.
Causes serious eye irritation.

Prevention

Wash exposed skin thoroughly after handling.
Wear protective gloves, and eye protection.
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.



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Hazards not otherwise specified: None

Percentage of unknown toxicity: 0%

3. Composition/Information On Ingredients

| Component | CAS No. | Amount |
|-----------------------------------|------------|--------|
| Diethylene glycol monobutyl ether | 112-34-5 | <3% |
| Lauramidopropylamide Oxide | 61792-31-2 | <2% |
| Myristamidopropylamine Oxide | 67806-10-4 | <1% |
| Sodium Metasilicate | 6834-92-0 | <1% |

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation: If inhaled, remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

Skin Contact: Wash with plenty of water and soap. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Eye Contact: If contact occurs, flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. If eye irritation persists: Get 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: Causes eye and skin irritation. Inhalation of mists may mild cause respiratory irritation. Ingestion causes gastrointestinal irritation.

Indication of Immediate Medical Attention/Special Treatment: Should not be required under normal use conditions.

5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media that is suitable for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising From the Chemical: Closed containers may rupture if exposed to extreme heat. Burning may release nitrogen oxides, and 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.



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6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing and equipment as described in Section 8.

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

Methods and Materials for Containment / Cleanup: 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 eye and skin contact. Avoid breathing mists or vapors. Use only with appropriate protective equipment. Launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

Empty containers retain product residue and may be hazardous. Do not cut, weld, drill, etc. containers, even empty. Do not reuse empty containers.

Conditions for Safe Storage, Including Any Incompatibilities:

Protect containers from physical damage. Store in a cool, well-ventilated area away from acids and other incompatible materials.

8. Exposure Controls / Personal Protection

Exposure Guidelines:

| CHEMICAL | EXPOSURE LIMIT |
|-----------------------------------|---|
| Diethylene glycol monobutyl ether | 10 ppm TWA ACGIH TLV (Inhalable fraction and vapor) |
| Lauramidopropylamide Oxide | None Established |
| Myristamidopropylamine Oxide | None Established |
| Sodium Metasilicate | None Established |

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

Personal Protective Equipment

Respiratory Protection: Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For operations where exposure limits may be exceeded use a NIOSH approved respirator (mask) with appropriate eye protection. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134, and all other applicable regulations; and good Industrial Hygiene practice.

Gloves: Impervious gloves such as rubber, neoprene or nitrile are recommended.

Eye Protection: Safety glasses or goggles if eye contact is possible.

Other Protective Equipment/Clothing: Use protective clothing if skin contact is likely.



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9. Physical and Chemical Properties

Appearance And Odor: Clear, colorless liquid with a slight odor.

| | |
|---|--|
| Physical State: Liquid. | Odor Threshold: Not determined |
| pH: 12 – 13 (Alkali reserve: 0.32g NaOH to neutralize to pH 10) | Specific Gravity: ~ 1.035 |
| Initial Boiling Point/Range: Not determined | Vapor Pressure: Same as water |
| Melting/Freezing Point: Not determined | Vapor Density: Same as water |
| Solubility In Water: Complete | Percent Volatile: >85% |
| Viscosity: Not determined | Evaporation Rate: Not determined |
| Relative Density: Not determined | VOC Content: Not available |
| Coefficient Of Water/Oil Distribution: Not determined | Autoignition Temp: Not determined |
| Flash Point: >200°F (93.3°C) | Flammability Limits: LEL: Not applicable UEL: Not applicable |
| Decomposition Temperature: Not available | Flammability (solid, gas): Not applicable |

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will react with bleach and bleach-containing materials.

Conditions To Avoid: None known.

Incompatible Materials: Bleach and bleach-containing materials.

Hazardous Decomposition Products: None known

11. Toxicological Information

Acute Hazards:

Inhalation: Mist and vapors may cause irritation to the eyes, mucous membranes and upper respiratory tract.

Skin Contact: Causes irritation.

Eye Contact: Causes severe eye irritation.

Ingestion: Causes gastrointestinal upset and irritation.

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

Carcinogenicity Listing: 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: 5,660 mg/kg
LD50 Skin Rabbit: 2,700 mg/kg



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| | |
|-------------------------------|--|
| Lauramidopropylamide Oxide: | LD50 Oral Rat: 500 – 1,000 mg/kg LD50 Skin Rabbit: >2,000 mg/kg |
| Myristamidopropylamine Oxide: | LD50 Oral Rat: 500 – 1,000 mg/kg LD50 Skin Rabbit: >2,000 mg/kg |
| Sodium Metasilicate: | LD50 Oral Rat: 1,153 mg/kg LD50 Skin Rat: >5,000 mg/kg |

12. Ecological Information

Ecotoxicity:

| | |
|------------------------------------|--|
| Diethylene glycol monobutyl ether: | LC50 Lepomis macrochirus (Bluegill sunfish) 1300 mg/L/96 hr. |
| Sodium Metasilicate: | LC50 Brachydanio rerio 210 mg/L/96 hr. |

Persistence and Degradability:

| | |
|------------------------------------|-----------------------|
| Diethylene glycol monobutyl ether: | Readily biodegradable |
|------------------------------------|-----------------------|

Bio accumulative Potential:

| | |
|------------------------------------|--|
| Diethylene glycol monobutyl ether: | The potential for bioconcentration in aquatic organisms is low |
|------------------------------------|--|

Mobility in Soil:

| | |
|------------------------------------|--|
| Diethylene glycol monobutyl ether: | Is expected to have very high mobility in soil |
|------------------------------------|--|

Other Adverse Effects: No data available

13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations.

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): Diethylene glycol monobutyl ether (glycol ether compound)

Canada:

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.

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: Update to OSHA HazCom 2012 GHS format. Changes to all sections.

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