

Material Safety Data Sheet

CLEANFORCE TUFF SUDS



Section 1. Chemical product and company identification

Trade name : CLEANFORCE TUFF SUDS
Product use : Manual Warewashing Detergent
Supplier : Puritan Services Inc.
655 Lone Oak Drive
Eagan MN 55121
1-800-275-8914
Code : 901798-02
Date of issue : 17-August-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, Information on Ingredients

| <u>Name</u> | <u>CAS number</u> | <u>% by weight</u> |
|---|-------------------|--------------------|
| sodium dodecylbenzene sulfonate | 25155-30-0 | 2 |
| poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts | 68585-34-2 | 1 - 5 |
| amides, coco, n,n-bis(hydroxyethyl) | 68603-42-9 | 1 - 5 |
| ethanol | 64-17-5 | 1 - 5 |

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FIRE.

Avoid contact with skin and clothing. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to the eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

See toxicological Information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin contact : Wash with soap and water. Get medical attention if irritation occurs. Wash clothing before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

- Flash point** : 76.6667 °C (Open cup)
- Products of combustion** : These products are halogenated compounds, hydrogen chloride.
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.
- Dike area of fire to prevent product run-off.
Combustible liquid and vapor. May burn, but does not ignite readily. Under high temperatures or under moderate heating might release vapor in sufficient quantities to produce hazardous atmospheres with air.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.--

Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Store between 0 and 50°C

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal protection

- Eyes** : Eye protection recommended.
- Hands** : For prolonged or repeated handling, use Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Avoid breathing vapor or mist.

Name

ethanol

Exposure limits

ACGIH TLV (United States, 1/2004).

TWA: 1880 mg/m³ 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

TWA: 1900 mg/m³ 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

| | |
|-----------------------|--|
| Physical state | : Liquid. (Liquid.) |
| Color | : pink (Light.) |
| Odor | : Floral. |
| pH | : 7.11 (100%) |
| Specific gravity | : 1.015 (Water = 1) |
| Dispersion properties | : Easily dispersed in cold water, hot water. |
| Solubility | : Easily soluble in cold water, hot water. |

Section 10. Stability and reactivity

| | |
|----------------------------------|--|
| Stability | : The product is stable. |
| Hazardous decomposition products | : These products are halogenated compounds, hydrogen chloride. |

Section 11. Toxicological information

Potential acute health effects

| | |
|------------|---|
| Eyes | : Moderately irritating to the eyes. |
| Skin | : Moderately irritating to the skin. |
| Inhalation | : Moderately irritating to the respiratory system. |
| Ingestion | : No known significant effects or critical hazards. |

Potential chronic health effects

| | |
|---------------------------|--|
| Chronic effects on humans | : Contains material which causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, stomach. |
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Section 12. Ecological information

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|-------------------------|--|
| Products of degradation | : These products are carbon oxides (CO, CO ₂) and water, sulfur oxides (SO ₂ , SO ₃ ...), halogenated compounds. Some metallic oxides. |
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Section 13. Disposal considerations

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|----------------|--|
| Waste disposal | : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. |
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Consult your local or regional authorities.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Additional information |
|------------------------|----------------|----------------------|-------|---------------|------------------------|
| DOT Classification | Not regulated. | - | - | - | - |

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Combustible liquid
 Irritating material
 Target organ effects
U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.
 SARA 302/304 emergency planning and notification: None.
TSCA 8(b) inventory : All materials are listed or exempt.
California prop. 65 : No products were found.

Section 16. Other information

| | | |
|---|------------------------|---|
| Hazardous Material Information System (U.S.A.) : | Health * | 1 |
| | Fire hazard | 2 |
| | Reactivity | 0 |
| | Personal protection | B |

Date of issue : 17-August-2005.
Responsible name : Regulatory Affairs
Date of previous issue : 23-May-2005.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.