# Material Safety Data Sheet

CLEANFORCE HEAVY DUTY DISHMACHINE DETERGENT

## Section 1. Chemical product and company identification

**Trade name** : CLEANFORCE HEAVY DUTY DISHMACHINE DETERGENT
**Product use** : Machine Warewashing Detergent
**Supplier** : Puritan Services Inc.
655 Lone Oak Drive
Eagan MN 55121
1-800-275-8914
**Code** : 921817-03
**Date of issue** : **24-October-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

| Name | CAS number | % by weight |
|---|---|---|
| sodium hydroxide | 1310-73-2 | 40 |
| triphosphoric acid, pentasodium salt | 7758-29-4 | 34 |
| sodium carbonate | 497-19-8 | 5 - 20 |
| sodium chloride | 7647-14-5 | 5 - 20 |
| troclosene sodium, dihydrate | 51580-86-0 | 1 - 5 |

## Section 3. Hazards identification

**Physical state** : Solid. (Powder.)
**Emergency overview** : DANGER!

CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes, on skin or clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Potential acute health effects**

**Eyes** : Corrosive to eyes.
**Skin** : Corrosive to the skin.
**Inhalation** : Corrosive to the respiratory system.
**Ingestion** : Harmful if swallowed. Causes burns to mouth, throat and stomach.

**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 immediately.
**Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
**Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
**Ingestion** : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire fighting measures

**Flash point** : > 100°C

**Products of combustion** : These products are halogenated compounds, hydrogen chloride.

**Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
No specific hazard.

**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, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

## Section 7. Handling and storage

**Handling** : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe dust. Wash thoroughly after handling.

**Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Do not store above 50°C

## Section 8. Exposure controls, personal protection

**Engineering controls** : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Provide eyewash and safety shower in area if contact or splash hazard exists.

**Personal protection**

**Eyes** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

**Hands** : Use chemical-resistant, impervious gloves.

**Skin** : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

**Respiratory** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

| Name | Exposure limits |
|---|---|
| sodium hydroxide | **OSHA PEL (United States, 8/1997).**<br>TWA: 2 mg/m$^3$ 8 hour(s). Form: All forms<br>**ACGIH TLV (United States, 1/2004).**<br>CEIL: 2 mg/m$^3$ |
| chlorine | **ACGIH TLV (United States, 1/2004).**<br>STEL: 2.9 mg/m$^3$ 15 minute/minutes. Form: All forms<br>STEL: 1 ppm 15 minute/minutes. Form: All forms<br>TWA: 1.5 mg/m$^3$ 8 hour(s). Form: All forms<br>TWA: 0.5 ppm 8 hour(s). Form: All forms<br>**OSHA PEL (United States, 8/1997).**<br>CEIL: 3 mg/m$^3$ Form: All forms<br>CEIL: 1 ppm Form: All forms |

## Section 9. Physical and chemical properties

**Physical state** : Solid. (Powder.)
**Color** : White with colored particles (Light.)
**Odor** : chlorine
**pH** : 13 (1%)
**Solubility** : Soluble in cold water, hot water.

## Section 10. Stability and reactivity

**Stability** : The product is stable.
**Reactivity** : Highly reactive with acids.
Reactive with metals.
Mixing this product with acid or ammonia releases chlorine gas.
Do not get water inside container.
Wet material may generate halogenated gas that may pressurize sealed containers.
**Hazardous decomposition products** : These products are halogenated compounds, hydrogen chloride, chlorine.

## Section 11. Toxicological information

**Potential acute health effects**

**Eyes** : Corrosive to eyes.
**Skin** : Corrosive to the skin.
**Inhalation** : Corrosive to the respiratory system.
**Ingestion** : Harmful if swallowed. Causes burns to mouth, throat and stomach.

**Potential chronic health effects**

**Chronic effects on humans** : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea, stomach.

## Section 12. Ecological information

**Products of degradation** : These products are carbon oxides (CO, $CO_2$) and water, nitrogen oxides (NO, $NO_2$ ...), halogenated compounds, phosphates. Some metallic oxides.

## Section 13. Disposal considerations

**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.
**Waste classification** : Unused product is D002 (Corrosive)
**Consult your local or regional authorities.**

## Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Class | Packing group | Additional information |
|---|---|---|---|---|---|
| **DOT** Classification | UN1823 | Sodium hydroxide, solid | 8 | II | **Limited quantity** Yes. **Special provisions** IB8, IP2, IP4 |

**APPLIES ONLY DURING ROAD TRANSPORT**
**Any variation of the shipping description based on the packaging is not addressed.**

## Section 15. Regulatory information

**HCS Classification** : Corrosive 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** | * | 3 |
| **Fire hazard** | | 0 |
| **Reactivity** | | 1 |
| **Personal protection** | | C |

**Date of issue** : **24-October-2005.**

**Responsible name** : **Regulatory Affairs**

**Date of previous issue** : **No previous validation.**

**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.**