

AATCC  
One Davis Drive  
P.O. Box 12215  
Research Triangle Park, NC 27709

**MATERIAL SAFETY DATA SHEET**

**Issue Date:** 12/2003

**SECTION I**

**Emergency Telephone Numbers** Call Local Poison Control Center

**Identity** Liquid Laundry Detergent (AATCC 2003) NOT FOR COMMERCIAL MARKET USE

**Other Ingredients:** Sodium Hydroxide (Caustic), CAS No. 1310-73-2, ACGIH Ceiling: 2 mg/m<sup>3</sup>, OSHA PEL & TWA: 2 mg/m<sup>3</sup>; Biodegradable surfactants (anionic)

**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point (°F): 205 – 207 °F

Specific Gravity (H<sub>2</sub>O = 1): 1.060

Vapor Pressure (mm Hg): <29.4

Percent Volatile by Volume (%): 60% - 65%

Vapor Density (Air = 1): Unknown

Evaporation Rate (nBuOAc = 1): Unknown

Odor Threshold: N/A

Freezing Point: N/A

Coefficient of Water/Oil Distribution: N/A

pH (10% solution): 8.25 – 8.75

Scoop Density: N/A

Solubility in Water: Completely Soluble

Appearance and Odor: Yellow Liquid/Odorless

Reserve Alkalinity: N/A

**SECTION IV – FLAMMABILITY AND REACTIVITY DATA**

Flash Point (Method Used): 200°F

Explosive Limits: LEL: N/A UEL: N/A

Extinguishing Media: CO<sub>2</sub>, water

Special Fire Fighting Procedures: None

Unusual Fire Hazards: None

Stability:

*Unstable:*

*Conditions to Avoid:* None

*Stable:* X

Incompatibility (Materials to avoid): None known

Hazardous Decomposition/By Products: None known

Hazardous Polymerization

*May Occur:*

*Conditions to Avoid:* None

*Will Not Occur:* X

**SECTION V – HEALTH AND SAFETY DATA**

**Health Effects (Acute and Chronic)**

-Inhalation: Transient irritation with prolonged exposure to concentrated material.

-Eye: May cause mild, transient irritation.

-Ingestion: May cause transient gastrointestinal irritation.

**Signs and Symptoms of Exposure**

- Inhalation: May result in nausea, vomiting, and/or diarrhea.
- Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.
- Ingestion: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

**Emergency and First Aid Procedures**

- Inhalation: N/A
- Eye: Flush with water for 10 to 15 minutes.
- Ingestion: Drink a glassful of water.
- Skin: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes.

-If symptoms persist or reoccur, seek medical attention.

**Other**

-None.

**SECTION VI – PRECAUTIONS FOR SAFE HANDLING AND USE**

**Precautions To Be Taken in Handling and Storing**

-No unusual precautions necessary.

**Other Precautions**

-None.

**Steps To Be Taken In Case Material Is Released or Spilled**

-Flush small or household quantities down acceptable sewer (contains biodegradable surfactants). Prevent spills from reaching waterway. Sorbents may be used.

**Waste Disposal Method**

-Check with federal, state, or local regulations; waste may be discharged into sanitary sewer as non-hazardous waste if regulations permit.

**SECTION VII – SPECIAL PROTECTION INFORMATION**

**Respiratory Protection (Specify Type)**

-None required.

**Ventilation**

- |                        |  |           |      |
|------------------------|--|-----------|------|
| -Local Exhaust:        | None required with normal use.                     | -Special: | None |
| -Mechanical (general): | Normal/general dilution ventilation is acceptable. | -Other:   | None |

**Eve Protection**

-None required with normal use. If a splash is likely, chemical goggles may be needed.

**Protective Gloves**

-None required with normal use. Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

**Other Protective Equipment**

-None required with normal use.

The submission of this MSDS may be required by law but this is not an assertion that this substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in conjunction with occupational safety and health.