



# MATERIAL SAFETY DATA SHEET

Product Name: Ultra Clean Cart Wash

## Section I: Supplier Information

Issue Date: 11/27/07

Ultra Clean Systems, Inc.  
12700 Dupont Circle  
Tampa, Florida 33626  
[www.ultracleansystems.com](http://www.ultracleansystems.com)

Emergency Phone: INFOTRAC – 800-535-5053  
Product Type: Cleaner  
Product Numbers: 90-0170, 90-0175, 90-0180

## Section II: Hazardous Ingredients/Identification Information

### **DANGEROUS – POISONOUS – CORROSIVE**

Harmful or fatal if swallowed. Causes moderate to severe skin and eye burns. Avoid breathing vapor or mists. This material is NOT listed as a carcinogen by IARC, NTP or OSHA.

CAS Number	Chemical Name	% By Wght.	OSHA PEL/ ACGIH TLV	SARA 302/304(1)	SARA 313 (2)	STATE Info (3) (4)	Cercla RQ
1310-58-3	Potassium Hydroxide	<14.0	2 mg/m <sup>3</sup> /2mg/m <sup>3</sup>	No	No	No	1000 lbs
1344-89-8	Sodium Silicate	<28.0	N.E.	No	No	No	None

## Section III: Physical/Chemical Characteristics

Appearance and Odor: Clear, light amber liquid, Odorless  
Specific Gravity H<sub>2</sub>O = 1): 1.3  
Boiling Point: >212°F  
Vapor Pressure (mmHg): N.E.

Solubility in Water: Complete  
Evaporation Rate (Butyl Acetate = 1): N.E.  
pH Concentrate: >13.0  
Vapor Density (Air=1): N.E.

## Section IV: Fire and Explosion Hazard Data

Unusual fire and explosion hazard: N/A  
Flash Point: No flash by standard methods  
Extinguishing Media: Dry chemical, C<sub>0</sub>2 or foam is recommended. Dilution with water may release heat  
Special Fire Fighting Procedures: Wear a self contained breathing apparatus with a full face piece operated in the positive pressure demand code.  
PPE: Chemical resistant is recommended

## Section V: Reactivity Data

Stability: Stable  
Conditions to avoid: High temperature  
Incompatibility: Strong acids, water, certain metals (aluminum)

Hazardous Polymerization: Will not occur  
Hazardous Decomposition Products: None

## Section VI: Health Hazard Data

Primary route of Entry: Eye contact, skin contact, inhalation.  
Acute/Potential Health Effects  
Eyes: Contact can cause severe damage including burns and blindness.  
Skin: Prolonged or repeated contact, even to diluted concentrations, can cause a high degree of tissue destruction.  
Inhalation: Breathing of this material is harmful. Exposure to vapor, mist or liquid can produce burns of the respiratory tract. Severe exposures could result in chemical pneumonia.  
Ingestion: Harmful or fatal if swallowed. Corrosive. Can cause severe burns and complete tissue perforation of mucous membranes, mouth, throat and stomach.  
Chronic/Long Term Effects: No known chronic effects.  
Signs and Symptoms of Overexposure: Contact of any kind will result in damage to skin, eyes and gastro-respiratory tract.  
Target Organ Effects: Lungs and upper respiratory tract, gastrointestinal tract, eyes and skin.  
Reproductive/Developmental Information: No data.



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## Section VII: Preventative and Control Measures

Eye Protection: Wear safety glasses or goggles and face shield. Remove contact lenses.

Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene), clothing and boots.

Respiratory Protection: When respiratory protection is required, use an organic vapor and particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1918.34 and ANSI 788.2 requirements.

Engineering Controls: Good general ventilation required.

## Section VIII: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

Ingestion: Seek medical attention immediately. Do NOT induce vomiting. If victim is alert, give 1/2 to 1 glass of water. Call a poison control center or doctor for treatment advice.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

## Section IX: Accidental Release Measures

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth). Prevent runoff from entering drains, sewers or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

## Section X: Handling and Storage

Follow all MSDS/label precautions even after container is emptied because they may contain product residues. Use with adequate ventilation. Do not get in eyes, on skin or clothing. Store in a cool, dry place. Keep container closed when not in use. Keep out of reach of children.

## Section XI: Transportation

D.O.T. Shipping Name/Class: Corrosive Liquid, Basic, Inorganic, N.O.S., 8, UN 3266, II (Contains Sodium Metasilicate).

## Section XII: Disposal Considerations

Waste Disposal Method: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section XIII: Toxicological/Ecological Information

Toxicological: Potassium Hydroxide (KOH): Acute oral LDSB (rat): 365 ag/kg. Primary skin irritation (rabbit): 24 hr, severe. Primary eye irritation (rabbit): 24 hr, severe.

Ecological: Potassium Hydroxide: Aquatic Ecotoxicity: Fish (fathead minnow): LC50 (96 hr): 179 ag/l.

## Section XIV: Regulatory Information

US Federal Regulations

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

Title III Section 311/312 Hazardous Categories – 40 CFR 370.2:

Acute (X) Chronic ( ) Fire ( ) Pressure ( ) Reactive ( ) Not Applicable ( )



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1. Title III Section 302/304 Extremely Hazardous Substances – 40 CFR 355 Appendix A
2. Title III Section 313 Toxic Chemicals – 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s). 0002

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

3. California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986).
4. Massachusetts (Hazardous Substance Disclosure by Employers)

## Section VI: Other Information

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

## Section XVI: Disclaimer

The information and recommendations contained herein are based upon data believed to be correct. However, Ultra Clean Systems, Inc. does not guarantee their accuracy or completeness nor shall any of this information constitute a guarantee or warranty, whether expressed or implied, as to the safety of the goods.