

**MATERIAL SAFETY DATA SHEET**  
**ION-417 Ultra House Wash**

**SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION**

**Product Name: ION-417 Ultra House Wash**  
**Product Number: 417HW**

**Manufacturer:**

Chemique, Inc.  
315 N. Washington Avenue  
Moorestown, NJ 08057  
(856) 235-4161

MSDS Date of Preparation: 02/21/07

**EMERGENCY PHONE: (800) 535-5053 (Infotrac)**

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENTS</b>	<b>CAS#.</b>	<b>WT.%</b>
Tetrasodium EDTA	64-02-8	1-5
Monoethanolamine	141-43-5	1-10
2-Butoxyethanol	111-76-2	1-5
Propylene Glycol Methyl Ether	107-98-2	1-5
Nonionic Surfactant	68412-54-4	1-5
Amphoteric Surfactant	Proprietary	1-2
Trisodium Nitrilotriacetate	5064-31-3	0.05-0.1

**SECTION 3: HAZARDS IDENTIFICATION**

This product is a green liquid with a citrus odor.

**EMERGENCY OVERVIEW**

**CAUTION!**

Contact may cause eye and skin irritation. May cause skin sensitization. May be harmful if absorbed through the skin. Vapors or mists may cause respiratory irritation and central nervous system effects. Harmful if swallowed. May cause chronic effects.

**HEALTH HAZARDS:**

**INHALATION:** Inhalation of vapors or mist may cause respiratory irritation with sore throat and coughing, headache, dizziness, drowsiness, nausea, weakness, intoxication and narcosis. Product may have an objectionable odor at high concentration or in confined spaces.

**SKIN CONTACT:** Contact may cause irritation with redness, pain and swelling. May cause skin sensitization. Prolonged or widespread contact may allow 2-Butoxyethanol, propylene glycol methyl ether and monoethanolamine to be absorbed through the skin with symptoms similar to those listed under inhalation or ingestion.

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**EYE CONTACT:** Contact may cause severe irritation or burns with redness, pain, tearing, swelling and blurred vision.

**INGESTION:** Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea. Large amounts may cause systemic effects including headache, dizziness, drowsiness, weakness, intoxication, narcosis, metabolic acidosis and kidney, liver or blood system damage.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Prolonged or repeated overexposure may cause severe skin irritation or dermatitis and damage to the liver, kidneys or blood system.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with chronic pulmonary, skin, kidney or liver diseases may be at increased risk from exposure to this material.

**SECTION 4 FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. Get immediate medical attention.

**SKIN CONTACT:** Wash thoroughly with soap and water until no traces of the chemical remains. Remove contaminated clothing and launder before reuse. Get medical attention if irritation or symptoms of exposure develop.

**INHALATION:** Remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

**INGESTION:** If conscious, give 1-2 glasses of water to dilute. Do not induce vomiting unless directed to by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

**SECTION 5 FIRE FIGHTING MEASURES**

**FLASH POINT:** Non-flammable

**FLAMMABLE LIMITS: (vol % in air)**                      **LEL – N/A**                      **UEL – N/A**

**AUTOIGNITION TEMPERATURE:** Not applicable

**EXTINGUISHING MEDIA:** Use any media appropriate for surrounding fire.

**SPECIAL FIREFIGHTING PROCEDURES:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Thermal decomposition may yield irritating or toxic gases.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate protective clothing and equipment to prevent contact. Dike spill and collect into closable containers for disposal with an inert absorbent. Prevent spill from entering sewers and waterways. Wash spill area with water.

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**SECTION 7 HANDLING and STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep container tightly closed. Store in a cool, well ventilated area. Do not store in aluminum or copper containers.

Avoid eye and skin contact. Avoid breathing vapors or mists. Do not swallow. Use with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash thoroughly after handling.

**OTHER PRECAUTIONS:** Empty containers retain product residues. Follow all MSDS precautions in handling empty containers.

**SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION**

**Exposure Guidelines:**

<b>INGREDIENTS</b>	<b>CAS#.</b>	<b>EXPOSURE LIMITS</b>
Tetrasodium EDTA	64-02-8	None Established
Nonionic surfactant	68412-54-4	None Established
Monoethanolamine	141-43-5	3 ppm TWA OSHA PEL 3 ppm TWA ACGIH TLV 6 ppm STEL ACGIH
2-Butoxyethanol	111-76-2	50 ppm (skin) TWA OSHA PEL 20 ppm TWA ACGIH TLV
d-Limonene		30 ppm AIHA WEEL
Propylene Glycol Methyl Ether	107-98-2	100 ppm TWA ACGIH TLV 150 ppm TLV ACGIH
Amphoteric Surfactant	Proprietary	None Established
Trisodium Nitrilotriacetate	5064-31-3	None Established

**RESPIRATORY PROTECTION:** Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For spray application and for large jobs where the recommended exposure limit may be exceeded an approved organic vapor respirator with a particulate pre-filter, supplied air respirator (with escape bottle if required) or self-contained breathing apparatus may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**VENTILATION:** Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

**GLOVES:** Butyl rubber or other impervious gloves are recommended to prevent skin contact.

**PROTECTIVE CLOTHING:** Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

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**EYE PROTECTION:** Wear chemical goggles and/or faceshield to prevent eye contact. Do not wear contact lenses.

**OTHER PROTECTIVE EQUIPMENT:** For operations where contact can occur, a safety shower and an eye wash facility should be available.

**SECTION 9 PHYSICAL and CHEMICAL PROPERTIES**

**BOILING POINT (@ 760 mmHg):** Not available

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.00

**VOLATILE:** Not available

**EVAPORATION RATE:** Same as Water

**pH:** 10

**VOC Content:** Not available

**APPEARANCE AND ODOR:** Green liquid with a citrus odor.

**MELTING POINT:** Not applicable

**VAPOR PRESSURE:** Not available

**VAPOR DENSITY (AIR=1):** Not available

**SOLUBILITY IN WATER:** Complete

**COEFFICIENT OF WATER/OIL:** Not available

**SECTION 10 STABILITY and REACTIVITY**

**STABILITY:** This material is stable.

**CONDITIONS TO AVOID:** Contact with copper, zinc and aluminum may release flammable hydrogen gas.

**INCOMPATIBILITY:** Avoid oxidizing agents, reducing agents, alkalis, acids, acetic anhydride, acrolein, acrylonitrile, epichlorohydrin, methyl cellosolve, oleum, vinyl acetate, lime, ammonia, organic amines, chlorates and sodium hydroxide.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield oxides of carbon, nitrogen and phosphorus and ammonia.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Not applicable.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**TOXICOLOGY DATA:** This product has not been tested as a whole. Toxicity values for the components are:

2-Butoxyethanol: Oral rat LD50: 470 mg/kg

Inhalation rat LC50: 470 mg/kg

Skin rabbit LD50: 220 mg/kg

Monoethanolamine: Oral rat LD50: 1,720 mg/kg

Inhalation mouse LC50: 2,420 mg/m<sup>3</sup>/2 hour

Skin rabbit LD50: 1,000 mg/m<sup>3</sup>

Tetrasodium EDTA: Oral rat LD50: >2,000 mg/kg

Nonionic Surfactant: Oral rat LD50: >3,000 mg/kg

Skin rabbit LD50: >2,000 mg/kg

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d-Limonene: Oral rat LD50: >5 g/kg  
Skin rabbit LD50: >5 g/kg  
Propylene Glycol Methyl Ether: Oral rat LD50: 7,200 mg/kg  
Skin rabbit LD50: 13,000 mg/kg  
Amphoteric Surfactant: Oral rat LD50: 5-15 g/kg  
Trisodium Nitrilotriacetate: Oral rat LD50: 1,100 mg/kg

Nitrilotriacetic acid and its salts have been classified as “possibly carcinogenic to humans” (Group 2B) by IARC and “reasonably anticipated to be a human carcinogen” by NTP.

2-Butoxyethanol has been found to be mutagenic in bacteria (*S. typhimurium*). Trisodium Nitrilotriacetate has tested positive in some mutagenic assays.

Amphoteric surfactant has been shown to cause skin sensitization in tests with laboratory animals.

2-Butoxyethanol has been found to cause adverse reproductive effects in laboratory animals (both effects on fertility and developmental abnormalities by inhalation and oral routes). Sodium salts of EDTA and propylene glycol methyl ether have been reported to cause birth defects in animals at doses not expected in occupational exposures. These effects were observed only at levels that were toxic to the mother.

**SECTION 12: ECOLOGICAL INFORMATION**

2-Butoxyethanol: 96 hr LC50 >100 mg/L  
Monoethanolamine: No data available  
Tetrasodium EDTA: 96 hr LC50 bluegill: 1,030 mg/L  
Nonionic Surfactant: No data available  
d-Limonene: No data available  
Propylene Glycol Methyl Ether: Acute LC50 fathead minnow: 20,800 mg/L  
Amphoteric Surfactant: No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Dispose in accordance with all local, state and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

**DOT SHIPPING NAME:** Not Regulated  
**DOT HAZARD CLASSIFICATION:** N/A  
**DOT LABELS REQUIRED (49CFR172.101):** None  
**UN NUMBER:** N/A

**SECTION 15: REGULATORY INFORMATION**

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**OSHA HAZARD CLASSIFICATION:** Irritant, toxic, target organ effects, carcinogen

**EPA SARA 311 HAZARD CLASSIFICATION:** Acute health, Chronic health

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:

2-Butoxyethanol (glycol ethers)	111-76-2	1-5%
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**CERCLA Hazardous Substances (Section 103)/RQ:** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**WHMIS CLASSIFICATION:** Class D - Division 2A (Toxic material causing other toxic effects)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

**TOXIC SUBSTANCES CONTROL ACT:** All of the components of this product are listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product contains less than 0.1% Trisodium Nitrilotriacetate and less than 2 ppm 1, 4 Dioxane which are known by the State of California to cause cancer. This product contains less than 0.025 ppm ethylene oxide which is known to the State of California to cause cancer and female reproductive toxicity.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

<b>SECTION 16: OTHER INFORMATION</b>
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NFPA Rating:      Health: 2      Fire: 0      Reactivity: 0