# MATERIAL SAFETY DATA SHEET

**Empire Industries** 312 Swynford Ct. Brentwood, TN 37037

GENERAL INFORMATION NUMBER: (866) 553-6747

REVISION DATE: March 16, 2005 DATE OF ISSUE: April 27, 2006

#### I - Product Identification

Acid Kick

PRODUCT CODE: 0101

CHEMICAL FORMULATION: Acid cleaner.

**REACTIVITY**: 1 NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 **FLAMMABILITY:** 1 **HAZARD RATING:** 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients							
	Values reported as TWA unless noted.						
	APPROX	OSHA	ACGIH	EPA 40 CFR:			
<b>SUBSTANCE</b>	<u>%</u>	PEL	<u>TLV</u>	<u>302</u>	<u>355</u>	<u>372</u>	CAS#
Ammonium bifluroide	< 2.0	$2.5 \text{ mg/m}^3$	$2.5 \text{ mg/m}^3$	Y	N	N	1341-49-7
Phosphoric acid	15.0-25.0	$1 \text{ mg/m}^3$	$1 \text{ mg/m}^3$	Y	N	N	7664-38-2
2-Butoxyethanol	1.0-10.0	25 ppm(skin)	25 ppm(skin)	N	N	Y	111-76-2
Poly (oxyethylene) nonylphenol	< 3.0	N/E	N/E	N	N	N	9016-45-9

Key: **PEL**: Permissible Exposure Limit **TLV:** Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit N/E: Not Established Y: Yes N: No

N/A: Not Applicable N/D: Not Determined

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4). 355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

### **III - Physical Data**

**BOILING POINT (°F): 212 SPECIFIC GRAVITY (WATER = 1):** 1.11 VAPOR PRESSURE (mm Hg): N/D **VOC CONTENT** (% by weight): < 5.00VAPOR DENSITY (AIR = 1): N/D **EVAPORATION RATE (WATER = 1):** N/D

**SOLUBILITY IN WATER:** Soluble APPEARANCE AND ODOR: Clear, light blue liquid; characteristic acid odor.

#### IV - Fire and Explosion Hazard Data

**FLASH POINT (°F):** > 200 (TEST METHOD):

FLAMMABLE LIMITS IN AIR (VOLUME %) **UPPER:** N/D LOWER: N/D

**EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must be equipped with full protective gear including self-contained breathing apparatus. Avoid breathing smoke or fumes. Move container from fire area if possible.

UNUSUAL FIRE AND EXPLOSION HAZARD: Fire may produce hazardous acid vapors. Contact with metals may produce explosive hydrogen gas accumulations.

#### V - Reactivity Data

**STABILITY:** Stable.

**INCOMPATIBILITY:** Alkaline materials, metals and metal salts.

CONDITIONS TO AVOID: Do not mix with chlorine bleach, ammonia or any other cleaning chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon, phosphorus, and

hydrofluoric acid.

HAZARDOUS POLYMERIZATION: Will not occur.

**CONDITIONS TO AVOID: None** 

#### VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION: X INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None. <u>EFFECTS OF OVEREXPOSURE</u>

**IF IN EYES:** Corrosive-Severe irritation, burns, destruction of tissue.

IF ON SKIN: Corrosive-Severe irritation, burns, destruction of tissue.

IF SWALLOWED: Severe burns to mucous membranes, destruction of tissue, DANGER – may be fatal if swallowed.

**IF INHALED:** Severe irritation of respiratory tract, pulmonary edema.

#### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Continue flushing until medical assistance arrives.

**IF ON SKIN:** Remove contaminated clothing. Flush with plenty of cool water for at least 15 minutes and cover exposed area with moist baking soda. Obtain medical assistance.

**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting. Give large quantities of water followed with milk of magnesia, beaten egg whites, or vegetable oil.

**IF INHALED:** Remove person to fresh air and call physician if irritation persists.

# VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and evacuate unprotected persons. Extinguish all sources of ignition. Contain spill and place into drums for proper disposal. Neutralize remaining area with baking soda, **WASTE DISPOSAL METHOD:** Consult local environmental authorities.

# **VIII - Special Protection Information**

**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

VENTILATION LOCAL: Recommended MECHANICAL: Recommended

PROTECTIVE GLOVES: Acid resistant.

**EYE PROTECTION:** Goggles and/or face shield.

OTHER PROTECTIVE EQUIPMENT: Emergency shower and eye wash station. Protective clothing.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Product is corrosive. Store away from heat, sparks, open flame, alkaline materials and reactive chemicals. Do not mix with any other cleaning chemicals. Keep container tightly closed when not **OTHER PRECAUTIONS:** Keep out of reach of children.

### **IX - Transportation Information (ground transportation only)**

**DOT PROPER SHIPPING NAME:** Compounds, cleaning liquid (phosphoric acid).

DOT CLASS: 8 DOT ID NUMBER: 1760 DOT PACKING GROUP: III

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: March 16, 2005 Prepared by: Technical Dept. DATE OF ISSUE: April 27, 2006

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