

# MATERIAL SAFETY DATA SHEET

Western Environmental Services, Inc.  
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GENERAL INFORMATION NUMBER: (602) 234-8873

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## I - Product Identification

### Cobra Cleaner

PRODUCT CODE: 0101

CHEMICAL FORMULATION: Acid cleaner.

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

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Ammonium bifluoride	< 2.0	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	N	N	N	1341-49-7
Phosphoric acid	15.0 - 25.0	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	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/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
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): < 5.00  
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): < 1.0  
SOLUBILITY IN WATER: Soluble pH: < 1.0  
APPEARANCE AND ODOR: Clear, light blue liquid; characteristic acid odor.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): N/A (TEST METHOD): None  
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A  
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.

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**V - Reactivity Data**

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**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

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**VI - Health Hazard Data**

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**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.

**EFFECTS OF OVEREXPOSURE**

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

**IF ON SKIN:** 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.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and evacuate unprotected persons. Contain spill and place into drums for proper disposal. Neutralize remaining area with baking soda, soda ash or lime.

**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**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 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 alkaline materials and reactive chemicals. Do not mix with any other cleaning chemicals. Keep container tightly closed when not in use.

**OTHER PRECAUTIONS:** Keep out of reach of children.

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

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**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.

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**Prepared by:** PMR

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