

MATERIAL SAFETY DATA SHEET

Ricmar Industries
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GENERAL INFORMATION NUMBER: (630) 559-9500
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REVISION DATE: April 30, 2002
DATE OF ISSUE: February 16, 2005

I - Product Identification

Coil Brite

PRODUCT CODE: 0101

CHEMICAL FORMULATION: Acid cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM:

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 1

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 ³	2.5 mg/m ³	N	N	N	1341-49-7
Phosphoric acid	15.0 - 25.0	1 mg/m ³	1 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/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.

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.

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.

VII - Spill or Leak Protection

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.

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 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.

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: April 30, 2002

Prepared by: PMR

DATE OF ISSUE: February 16, 2005

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