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MATERIAL SAFETY DATA SHEET

SECTION I: Chemical Product and Company Identification

Product Name: THUNDER
Product Description: Cleaner/Degreaser
Issue Date: 01/05/2012

SECTION II: Hazardous Ingredients

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>
• 2-Butoxyethanol CAS # 111-76-2	25 ppm (skin)	25 ppm (skin)	2
• Sodium Hydroxide CAS # 1310-73-2	2 mg/m ³	2 mg/m ³	1
• Sodium Metasilicate CAS # 6834-92-0	N/A	N.A	3

SECTION III: Health Hazard Data

• **Acute:**

Eyes: Major potential hazard. Undiluted product in the eye can cause severe destruction and possible blindness. These effects can occur rapidly affecting all parts of the eye. Mist can cause irritation when product is used undiluted.

Skin: Major potential hazard. Prolonged skin contact with undiluted product can cause irritation and chemical burns which may become apparent for several hours. Brief contact with undiluted product may cause slight reddening. More prolonged and widespread contact, as with chemical-saturated clothing, may cause itching, swelling and possible damage to the skin.

Inhalation: Vapors from undiluted product may cause irritation to the nose, throat, and respiratory tract. Inflammation, destruction of nasal passages and breathing difficulties can occur with prolonged overexposure of vapors or mist.

Ingestion: Ingestion of this product may result in burns of the mouth, esophagus and stomach. Nausea, pain and vomiting frequently occur.

• **Chronic:**

Skin: The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

Inhalation: Prolonged and repeated overexposure may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness. May also cause hemolysis of the red blood cells leading to possible liver and kidney damage.

Signs and Symptoms or Exposure: Irritation as noted above. This product may not produce an immediate burning sensation upon skin contact, delaying the awareness of the person that contact has occurred.

Aggravated Medical Conditions: Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product.

• **First Aid:**

Eyes: Flush eyes immediately with large amounts of water (preferably with an eye wash fountain), lifting the upper and lower eyelids occasionally. Continue washing for a minimum of 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing immediately and wash skin thoroughly for a minimum of 15 minutes under a safety shower.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Seek medical attention.

Ingestion: If person is conscious, give two glasses of water. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention.

SECTION IV: Special Precaution Information

• Respiratory Protection: If exposure exceeds occupational exposure limits (see sec. II) use a NIOSH approved respirator.

• Ventilation Required: Use only with ventilation sufficient to prevent exceeding recommended exposure limit. Use corrosion-proof equipment.

• Protective Clothing: Eyes: Use chemical resistant glasses or goggles.

• Skin: Use chemical resistant clothing to prevent undue bodily contact.

• Additional Protective Measures: Eye wash and safety shower.

SECTION V: Fire & Explosion

Flash Point (Method Used): 130-150°F (COC)

Flammable Limits (% Volume in Air)

Upper: 7%

Lower: 1%

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: Containers should be cooled with water if exposed to intense heat from fire which could result in container failure.

SECTION VI: Physical Data

Specific Gravity= 1: 1.07

Vapor Pressure (mm Hg): Not determined

Vapor Density (Air= 1): None

Percent Volatile by Volume: 80%

Evaporation Rate (Butyl Acetate= 1): None

Boiling Point: 130-150°F

Melting Point: not available

pH: 1% Solution, 9

Solubility in Water @ 77 deg. F.

Appearance and Odor: Clear Blue liquid, Slight Odor

SECTION VII: Reactivity Data

Stability: Stable, Will form an emulsion

Hazardous Decomposition Products: Carbon monoxide and other unidentified organic compounds may be formed during combustion.

Hazardous Polymerization: Will not occur

SECTION VIII: Spill and Leak Procedures

Steps to be Taken if Material released or Spilled: Collect large spills for disposal. Flush small spills with water.

Waste Disposal Method: Recovered liquid or solids may be sent to a licensed reclaimed or disposed of in a permitted waste management facility Follow all Federal, State and local regulations.

Precautions to be taken in Handling and Storage: Avoid contact with eyes. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions: Protect container from physical damage and store in a cool dry area. Do not transfer product into an unmarked container.

SECTION IX DOT: Regulatory Information

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Chemical Name

% BY WEIGHT

Data and information given in this document is accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this product, as this is beyond our control. The health hazards given on this Material Safety Data Sheet apply to this product in its' concentrated form (as supplied) and may differ significantly at use dilution levels. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.