

# MATERIAL SAFETY DATA SHEET

Total Solutions  
P.O. Box 240014  
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GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

REVISION DATE: November 7, 2004  
DATE OF ISSUE: November 9, 2004

## I - Product Identification

### Chisel

PRODUCT CODE: 1716

CHEMICAL FORMULATION: Water based alkaline detergent/cleaner.

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

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX	OSHA	ACGIH	EPA 40 CFR:			CAS #
	%	PEL	TLV	302	355	372	
2-Butoxyethanol	5.00-15.0	25 ppm (skin)	25 ppm (skin)	N	N	Y	111-76-2
Monoethanolamine	1.00-5.00	3 ppm	3 ppm	N	N	N	141-43-5
Cocodiethanolamide	1.00-3.00	N/E	N/E	N	N	N	120-40-1
Potassium Hydroxide	1.00-5.00	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	Y	N	N	1310-58-3
Sodium Metasilicate	1.00-3.00	N/E	N/E	N	N	N	6834-92-0
Sodium Tripolyphosphate	1.00-3.00	N/E	N/E	Y	N	N	7758-29-4
Ethoxylated Alcohols Phosphate Ester	< 2.00	N/E	N/E	N	N	N	68130-47-2

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): N/D

SPECIFIC GRAVITY (WATER = 1): 1.05

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Soluble

pH: 12.75-13.75

APPEARANCE AND ODOR: Clear, slight yellow liquid; detergent odor.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None

(TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/A

LOWER: N/A

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

SPECIAL FIRE FIGHTING PROCEDURES: Cool drums in vicinity of fire with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None.

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Strong acids.**CONDITIONS TO AVOID:** None**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.**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:** Moderate to severe irritation and redness. May cause permanent damage to cornea depending on length of exposure and concentration of product.**IF ON SKIN:** Severe irritation and burns, destruction of tissue.**IF SWALLOWED:** Danger-May be harmful or fatal if swallowed. Severe burns to mucous membranes.**IF INHALED:** Irritation of respiratory tract, headache, dizziness.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention.**IF ON SKIN:** Flush skin for 15 minutes with water while removing contaminated clothing. Obtain medical attention if irritation persists. Launder clothing separately before re-use.**IF SWALLOWED:** Contact physician or poison control center immediately. Rinse mouth with water and give affected person one to two glasses of water. Do not induce vomiting unless instructed by a poison control center or doctor. Never give anything by mouth to an unconscious person.**IF INHALED:** Remove person to fresh air. If breathing stops, administer artificial respiration. If breathing is difficult, give oxygen.

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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. Contain spill. Soak up on inert absorbent material and place in a properly labeled closed container for disposal.**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:** Not required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses or chemical goggles.**OTHER PROTECTIVE EQUIPMENT:** Protective clothing. Eye wash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from acids. Never add water to this product, always add this product to water. Do not mix with 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 (potassium hydroxide)**DOT CLASS:** 8**DOT ID NUMBER:** NA1760**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:** November 7, 2004**Prepared by:** PMR**DATE OF ISSUE:** November 9, 2004

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