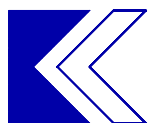


MATERIAL SAFETY DATA SHEET



KNAPP Manufacturing

Knapp Manufacturing
5227 E. Pine Ave.
Fresno, California 93727

Daytime Phone: 559-251-8254
Emergency: Chem-Tel 800-255-3924
Date Compiled: November 20, 2003

SECTION 1: PRODUCT IDENTIFICATION

Product name: **HDC Heavy Duty Cleaner**

Synonym/Chemical name/Common name: Cleaner

DOT proper Shipping name: Compounds, Cleaning Liquid (Potassium Hydroxide), 8, NA 1760, PG III (Limited Quantity in one-gallon bottles)

Knapp inventory number: 71009

SECTION 2: INGREDIENT INFORMATION

Hazardous Ingredients	Wgt %	Toxicity Data
Potassium Hydroxide CAS# 1310-58-3	2.0	TLV=2 mg/m ³ in air
Butyl Cellosolve* CAS# 111-76-2	7.51	TLV=121 mg/m ³ in air

This product contains no chemical at a level which poses a significant risk as defined by California Proposition 65.

*This chemical is subject to the reporting requirements of Title III SARA, section 313 of EPCRA (40 CFR 372).

SECTION 3: PHYSICAL CHARACTERISTICS

Specific Gravity (H₂O=1): 1.026

Vapor pressure: 24 mm Hg

Vapor density (Air=1): No vapors are produced

Percentage volatile by weight: 90.42

Solubility in water: Complete

pH (Undiluted): 13.0

Evaporation rate (H₂O=1): 1.0

Freezing point: 32°F

Boiling point: 212°F

Appearance and odor: Clear green liquid with mild solvent odor

SECTION 4: FIRE AND EXPLOSION HAZARDS

Flash point: Nonflammable Flash point test method: N/A
Flammability limits: N/A
Extinguishing media: Treat primary fire
Special fire fighting procedures: None
Unusual fire or explosive hazards: None

SECTION 5: REACTIVITY DATA/CONDITIONS TO AVOID

Stability: Stable
Incompatibilities (Conditions to avoid): Do not mix with acids.
Undiluted product is corrosive to aluminum and magnesium. Test
diluted product on any soft metal before use.
Hazardous decomposition products: None
Hazardous polymerization will not occur.
Conditions to avoid: None are known

SECTION 6: HEALTH HAZARDS/FIRST AID

Primary routes of entry: None
Signs and symptoms: Product is irritating to unprotected skin and
is extremely irritating to eyes.
First aid procedures: For skin contact, flush with large amounts of
water. For eye contact, flush with water for at least 15 minutes.
If irritation persists, contact a physician.
Use of this product causes no known chronic health effects.

SECTION 7: PERSONAL PROTECTION RECOMMENDATIONS

Respiratory protection: None required
Ventilation: Use with adequate ventilation
Protective gloves: Rubber gloves are recommended for unprotected
hands during mixing or use.
Eye protection: Guard against splashing in eyes. Avoid sprayed
mists.

SECTION 8: STORAGE/SPILL/SPECIAL HANDLING INFORMATION

Steps to be taken in case of spill: Spill area will be slippery
until spilled material is removed. Remove with rags, mops, or by
flushing with water.
Waste disposal: Follow all applicable waste disposal regulations.
Special storage or handling precautions: Do not expose to freezing
temperatures.

N/D=not determined

N/A=Not applicable

This Material Safety Data Sheet is written and provided in good faith for the sole purpose of providing information for the safe use and handling of this product. It is compiled from technical data believed to be current and correct. It should not be taken as a warranty or representation for which Knapp Manufacturing assumes any legal responsibility. The buyer assumes all responsibilities of using and handling the product in accordance with local, state and federal regulations.