

Technical Data

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HEATBATH CORPORATION • BOX 2978, SPRINGFIELD, MASSACHUSETTS 01101-2978
TEL. AREA CODE (413)543-3381 TELEX: 752986 HEATBATH UD



UNI KLEEN #10

CHARACTERISTICS:

Uni Kleen #10 is a heavy-duty, mildly-alkaline, soak cleaner designed to remove solid dirt, soils, oils, buffing compounds and greases from steel, stainless steel, copper, magnesium, brass and nickel. Uni Kleen #10 is formulated to completely remove, emulsify and hold oily and greasy contaminants in suspension, thus preventing scum formation and consequent redeposition of the contaminants on the work being cleaned. Uni Kleen #10 is free rinsing and is compatible with electrolytic cleaners so that work being cleaned in it can be transferred directly into the electrolytic cleaner without being rinsed.

FORM:

A free-flowing, non-dusting, mildly-alkaline powder.

EQUIPMENT:

Tanks and heating elements fabricated with mild steel are satisfactory.

OPERATING CONDITIONS:

Make-Up Concentration:	6 - 8 oz. /gal.
Operating Temperature:	160° - 212° F.
Immersion Time:	1 - 5 minutes

MAINTENANCE AND CONTROL:

1. Pipette 10 ml. of Uni Kleen #10 solution into a 250 ml. beaker and add approximately 100 mls. of water.
2. Add 5 drops of Phenolphthalein Indicator.
3. Titrate with 1.0 Normal Hydrochloric Acid to a colorless endpoint.
4. The mls. of 1.0 Normal Hydrochloric Acid required divided by 1.25 equals the ounces per gallon of Uni Kleen #10.

Bulletin #230-10

MATERIAL SAFETY DATA SHEET
UNI KLEEN 10

SECTION I - IDENTIFICATION

EMERGENCY DIRECTORY
413-543-3381 (EASTERN TIME) 8:00AM-5:00PM
800-424-9300 (OFF HOURS) CHEMTREC

HMIS HEALTH 3
HMIS FLAMMABILITY 0
HMIS REACTIVITY 1
HMIS PROTECTION X

HEATBATH CORPORATION
107 FRONT STREET
INDIAN ORCHARD, MASS. 01151

PREPARED BY: THOMAS A. NADEAU
DATE: 8/25/89

PRODUCT NAME..... UNI KLEEN 10
DESCRIPTION..... Chemical product for cleaning metal.
DOT CLASS: CORROSIVE SOLID N.O.S. (SODIUM HYDROXIDE, DRY SOLID) CORROSIVE
MATERIAL UN 1759 RQ

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	PEL(MG/M3)	TLV(MG/M3)	%
SODIUM HYDROXIDE	1310-73-2	2.0	2.0	20-30
SODIUM CARBONATE	497-19-8	N.E.	N.E.	20-30
SODIUM METASILICATE	6834-92-0	N.E.	N.E.	20-30
TETRASODIUM PYROPHOSPHATE	7722-88-5	5.0	5.0	20-30
NONIONIC SURFACTANT	9036-19-5	N.E.	N.E.	1-10

N.E.=NOT ESTABLISHED

N.A.=NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING Point(F)..... N.A. SPECIFIC GRAVITY (H2O=1).... N.E.
VAPOR PRESSURE (mm Hg).....N.A. MELTING POINT..... N.E.
VAPOR DENSITY (Air=1)..... N.A. EVAPORATION RATE.....N.A.
SOLUBILITY IN H2O..... complete. PH.....N.A.
APPEARANCE/ODOR.....odorless, white powder.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... None. FLAMMABLE LIMITS.....None.
LOWER FLAME LIMIT..... N.A. HIGHER FLAME LIMIT..... N.A.
IN CASE OF FIRE: Material is nonflammable. Use extinguishing media
appropriate to surrounding conditions.
SPECIAL FIREFIGHTING PROCEDURES: Wear protective clothing with
self-contained breathing apparatus.
UNUSUAL FIRE HAZARDS: Contact with some metals (i.e. aluminum,tin,zinc etc.)
may release flammable hydrogen gas.

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE CONDITIONS TO AVOID: None.
INCOMPATIBLE MATERIALS: strong acids, chlorinated hydrocarbons, leather, wool,
metals such as aluminum, zinc, tin, brass etc.
DECOMPOSITION PRODUCTS: steam, hydrogen.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: inhalation, ingestion.

**MATERIAL SAFETY DATA SHEET
UNI KLEEN 10**

HEALTH HAZARDS (ACUTE,CHRONIC): Contains STRONG ALKALI. Causes severe eye, skin and tissue burns. May be harmful or fatal if swallowed. May cause respiratory tract irritation. Avoid contact with eyes, skin or clothing.

CARCINOGENICITY: None. NTP?: No. IARC?: No. OSHA REGULATED?: No.

SYMPTOMS OF EXPOSURE: eye, skin and respiratory tract irritation. eye, skin and tissue burns.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not known.

FIRST AID: INHALATION: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult,give oxygen. Get medical attention. EYES: Hold eyelids apart and flush with running water for at least 15 minutes. Get medical attention. SKIN: Wash affected area with plenty of water. Remove contaminated clothing. If irritation or burns are present, get medical attention. INGESTION: If conscious, give plenty of water, milk or fruit juice. Do not induce vomiting. Get medical attention.

SECTION VII - PRECAUTIONS/PROCEDURES

IN CASE OF SPILL: Sweep up material into a chemical waste container. Neutralize spill area with a weak acid solution.

WASTE DISPOSAL METHOD: Neutralize with dilute acid and dispose of in accordance with federal, state and local regulations.

PRECAUTIONS: Wear proper protective clothing when using this product. Use with adequate ventilation. Wash thoroughly after handling. Store away from strong acids. When making a solution, add slowly to water with constant stirring.

OTHER PRECAUTIONS: Emptied containers of this product may contain hazardous vapors and residue. Clean thoroughly before reusing or discarding. Do not use a welding torch to cut container. Do not use for water or food storage.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirator if dust, fumes or vapors are excessive. VENTILATION: maintain below PEL, TLV.

MECHANICAL EXHAUST..... X. PROTECTIVE GLOVES: rubber.

LOCAL EXHAUST..... X. EYE PROTECTION: safety goggles, face shield.

OTHER PROTECTIVE EQUIPMENT..... apron,boots, full cover work clothes.

WORK/HYGIENIC PRACTICES..... wash thoroughly after handling,laundry clothes.

SECT IX -SARA TITLE III INFORMATION

HAZARDOUS COMPONENT	CERCLA RQ LBS.	SECT 302 TPQ LBS.	SECT 313 TOXIC	SECT.311/312 HAZARDS
SODIUM HYDROXIDE	1000	N.A.	NO	A,E
SODIUM CARBONATE	N.A.	N.A.	NO	A
SODIUM METASILICATE	N.A.	N.A.	NO	A,E
TETRASODIUM PYROPHOSPHATE	N.A.	N.A.	NO	A
ANIONIC SURFACTANT	N.A.	N.A.	NO	A

A=IMMEDIATE (ACUTE) HEALTH HAZARD B=DELAYED (CHRONIC) HEALTH HAZARD
C=FIRE HAZARD D=SUDDEN RELEASE OF PRESSURE HAZARD E=REACTIVE HAZARD