

MATERIAL SAFETY DATA SHEET  
PRODUCT NAME: CLINITEST REAGENT TABLETS  
PRODUCT NO.: 2126, 2127, 2128  
REGULATED BY OSHA 29 CFR 1910.1200

=====

MANUFACTURER			HEALTH:	2
MILES INC.	EMERGENCY TELEPHONE	HMIS		
DIAGNOSTICS DIVISION	1-800-348-8100 (AMES)	HAZARD	FIRE:	0
ELKHART, IN., (46515)	1-800-424-9300 (CHEMTREC)	RATING		
USA			REACTIVITY:	2

PERSONAL PROTECTION: B

=====

SECTION I: IDENTIFICATION

-----

PRODUCT NAME: CLINITEST REAGENT TABLETS      PRODUCT NUMBER: 2126, 2127, 2128

CHEMICAL NAME: MIXTURE

DATE PREPARED: DECEMBER 20, 1990      NEW:      REVISED: X

SECTION II: HAZARDOUS INGREDIENTS

-----

CAS #	COMPONENT	AMOUNT	EXPOSURE LIMITS
1310-73-2	SODIUM HYDROXIDE **	APPROX 35%	AIR-TLV 2 MG/M3
7758-98-7	COPPER SULFATE **	APPROX 3%	TLV-TWA 1 MG (CU) /M3 ORAL LD50 300 MG/KG

\*\*REPORTING REQUIRED BY SARA TITLE III SECTION 313 (40 CFR 372) ABOVE 1%.

SECTION III: PHYSICAL DATA

-----

APPEARANCE AND ODOR: SOLID PALE BLUE TABLETS WITH NO MARKINGS OR ODOR.

PH: WHEN DRY, N/A      PH: WHEN WET OR DISSOLVED, MATERIAL IS VERY CAUSTIC.

SOLUBILITY IN WATER: COMPLETELY SOLUBLE

PHYSICAL HAZARD: CLINITEST TABLETS ARE HIGHLY SENSITIVE TO MOISTURE FROM AIR OR WATER. EXCESSIVE MOISTURE MAY CAUSE A CHEMICAL REACTION AND THE GLASS BOTTLE COULD EXPLODE.

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

-----

FLASH POINT (METHOD USED): NOT APPLICABLE      FLAMMABLE LIMIT: NOT APPLICABLE

EXTINGUISHING MEDIA: CO2 WOULD BE PREFERRED ON SMALL FIRES IN SURROUNDING PACKAGES. WATER ON BROKEN PACKAGES OF TABLETS WILL CAUSE A CHEMICAL REACTION.

SPECIAL FIRE FIGHTING PROCEDURE: NO SPECIAL TECHNIQUES IDENTIFIED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXPOSED TABLETS CONTACTED WITH WATER COULD GENERATE SUFFICIENT HEAT TO IGNITE SURROUNDING COMBUSTIBLE MATERIAL.

-----

N/D = NOT DETERMINED

N/A = NOT APPLICABLE

PAGE 1

SECTION V: HEALTH AND HAZARD DATA

-----

THRESHOLD LIMIT VALUE OF PRODUCT/MIXTURE: NOT DETERMINED

EFFECTS OF OVER EXPOSURE: NOT DETERMINED

CARCINOGEN OR SUSPECTED CARCINOGEN: NO

EMERGENCY AND FIRST AID PROCEDURES: FOR INGESTION OR SKIN CONTACT CALL A PHYSICIAN AT ONCE AND ARRANGE FOR TRANSPORT TO NEAREST EMERGENCY ROOM (ER).

WHILE AWAITING PHYSICIAN OR TRANSPORT TO ER:

INHALATION: WARNING! THE PRODUCT IS VERY CAUSTIC. IF DUST FROM ACCIDENTALLY CRUSHED TABLETS IN INHALED, REMOVE PATIENT FROM THE IMMEDIATE AREA AND OBTAIN

MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER OR MILK. CALL A PHYSICIAN AT ONCE. INDICATE INGESTION OF CAUSTIC SODA (SODIUM HYDROXIDE) AND COPPER SULFATE.

SKIN CONTACT: IF SKIN CONTACT WITH THE DRY COMPOUND OR THE DISSOLVED TABLETS FLOOD THE CONTACTED AREA WITH WATER FOR AT LEAST 15 MINUTES. OBTAIN PROMPT MEDICAL ATTENTION.

EYE CONTACT: GET MEDICAL ATTENTION IMMEDIATELY! ACUTE EXPOSURE! CONTACT MAY CAUSE SEVERE IRRITATION OF THE CORNEA. WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS UNTIL NO EVIDENCE OF CHEMICAL REMAINS. FLOOD FOR AT LEAST 15-20 MINUTES. CONTINUE IRRIGATING WITH NORMAL SALINE UNTIL THE PH HAS RETURNED TO NORMAL.

SECTION VI: REACTIVITY DATA

STABILITY: STABLE: STABLE IF KEPT DRY. MOISTURE WILL START A CHEMICAL REACTION WHICH WILL RELEASE GAS AND HEAT.

CONDITIONS TO AVOID: ACCIDENTAL CONTACT WITH MOISTURE AND/OR WATER. (MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION PRODUCTS: DECOMPOSITION WITH MOISTURE WILL PRODUCE A CAUSTIC SOLUTION.

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

CONDITIONS TO AVOID: AVOID ACCIDENTAL CONTACT WITH MOISTURE BY KEEPING CONTAINER LID TIGHTLY CLOSED.

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: TAKE UP SPILLED TABLETS AND DISSOLVE ONE AT A TIME IN AN OPEN CONTAINER OF WATER. CAUTION! THE RESULTING SOLUTION WILL BE VERY CAUSTIC. HANDLE AS A CONCENTRATED SOLUTION OF SODIUM HYDROXIDE.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

PAGE 2

SECTION VIII: SPECIAL PROTECTION INFORMATION

VENTILATION: GENERAL ROOM VENTILATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NOT REQUIRED

PROTECTIVE GLOVES: FOR HANDLING SPILLED OR BROKEN TABLETS, RUBBER GLOVES ARE RECOMMENDED.

EYE PROTECTION: WHEN HANDLING SPILLED OR BROKEN TABLETS, SOME FORM OF SAFETY GLASSES SHOULD BE WORN.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: NONE ARE IDENTIFIED.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AS STATED ON THE CONTAINER LABEL.

PREPARED BY: 1/21/91

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN MILES INC. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF MILES INC., IT IS THE USER'S OBLIGATION TO ASSURE SAFE USE OF THIS PRODUCT.

PAGE 3 (LAST PAGE)

MATERIAL SAFETY DATA SHEET

CLINITEST (R) REAGENT TABLETS FOR THE DETERMINATION OF REDUCING SUGARS IN URINE

PRODUCT CODE NO: 2101, 2105, 2107, 2126, 2127, 2128, 2159, 2121  
CAS NO. - : NOT APPLICABLE  
INGREDIENTS : 1 PART COOPER SULFATE, - 12 PARTS SODIUM HYDROXIDE,  
4 PARTS SODIUM CARBONATE, - 15 PARTS CITRIC ACID,  
FILLER AND BINDER

PHYSICAL & CHEMICAL CHARACTERISTICS: CLINITEST IS A REAGENT TABLET  
BASED ON THE CLASSIC BENEDICT'S COPPER REDUCTION REACTION, COMBINING  
REACTIVE INGREDIENTS WITH AN INTEGRAL HEAT GENERATING SYSTEM. THE  
PRODUCT IS USED TO DETERMINE THE AMOUNT OF REDUCING SUBSTANCES  
(GENERALLY GLUCOSE) IN URINE.

PHYSICAL HAZARDS: CLINITEST TABLETS ARE HIGHLY SENSITIVE TO MOISTURE FROM AIR  
OR WATER. EXCESSIVE MOISTURE MAY CAUSE A CHEMICAL REACTION AND A BOTTLE  
EXPLOSION MAY OCCUR.

NEVER TRANSFER TABLETS FROM ORIGINAL CONTAINER. KEEP CAP TIGHTLY CLOSED.

HEALTH HAZARDS: POISON: CAUSES SEVERE BURNS.  
WARNINGS: CONTAINS SODIUM HYDROXIDE (CAUSTIC SODA). AVOID CONTACT WITH  
SKIN, EYES, MUCOUS MEMBRANES AND CLOTHING. NOT FOR INTERNAL USE.  
CLINITEST TABLETS ARE HIGHLY SENSITIVE TO MOISTURE FROM AIR OR WATER.  
EXCESSIVE MOISTURE MAY CAUSE A CHEMICAL REACTION & BOTTLE EXPLOSION MAY  
OCCUR. NEVER TRANSFER TABLETS FROM ORIGINAL CONTAINER.

PRIMARY ROUTE OF ENTRY: NOT APPLICABLE - FOR IN VITRO DIAGNOSTIC USE.

EXPOSURE LIMITS: NOT APPLICABLE.

HANDLING: CLINITEST HAS PROLONGED STABILITY IN THE UNOPENED CONTAINER,  
EITHER GLASS BOTTLE OR FOIL, IF STORED AT TEMPERATURES BELOW 30 DEG.C  
(86 DEG.F). DO NOT REFRIGERATE. ONCE THE GLASS BOTTLE IS OPENED, STABILITY  
IS STRONGLY DEPENDENT ON PROTECTION FROM MOISTURE. TABLETS SHOULD BE USED  
ON A REGULAR BASIS AND NOT STORED FOR EXTENDED PERIODS OF TIME AFTER THE  
BOTTLE IS OPENED. RECAP THE BOTTLE TIGHTLY IMMEDIATELY AFTER REMOVING A  
TABLET. TABLETS IN FOIL MUST BE USED IMMEDIATELY UPON OPENING. PROTECT  
CLINITEST TABLETS FROM LIGHT, HEAT AND MOISTURE. DO NOT OPEN BOTTLE IN A  
STEAMY LOCATION. MOISTURE CAUSES CLINITEST TABLETS TO TURN A DEEPER SHADE  
OF BLUE.

FIRST AID: INTERNAL - DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF  
WATER OR MILK. CALL PHYSICIAN IMMEDIATELY. EXTERNAL - FLOOD WITH WATER.  
EYES - FLUSH WITH WATER FOR 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

OTHER INFORMATION: SEE COPY OF PRODUCT INSERT ON OTHER SIDE. CLINITEST  
REAGENT TABLETS IS NOT LISTED IN THE NATIONAL TOXICOLOGY PROGRAM (NTP)  
ANNUAL REPORT ON CARCINOGENS (LATEST EDITION) OR HAS BEEN FOUND TO BE A  
POTENTIAL CARCINOGEN IN THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
(IARC) MONOGRAPHS (LATEST EDITIONS), OR BY OSHA.

DATE OF PREPARATION : APRIL, 1986

NAME, ADDRESS AND TELEPHONE NUMBER OF MANUFACTURER:

AMES DIVISION, MILES LABORATORIES, INC.

P. O. BOX 70

ELKHART, INDIANA 46515

CUSTOMER SERVICE 1-800-348-8100

PREPARED BY: ROSANNE SAVOL (219) 262-7572

LAST PAGE