

MATERIAL SAFETY DATA SHEET

FOR SOLUTION '2' of
Eu-Test-It[™] Base Metal Identification Kit

EUTECTIC CORPORATION

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mshmm02.wps

SECTION I. IDENTIFICATION OF PRODUCT

Product Name: Solution '2'

Use: In *Eu-Test-It*[™] Base Metal Identification Kit

Size: .50 oz. or 15ml.

SECTION II. HAZARDOUS MATERIALS

Acetic Acid Solution

CAS NO: 64-19-7

% Solution: Approx. 15%

OSHA PeL (mg/m³): 25

ACGIH TLV (mg/m³): 25

Formula: CH₃COOH diluted in H₂O.

Used in Product "Chemical Kit"

Synonym or Cross Reference: Ethanoic Acid; Methane Carboxylic Acid; Ethylic Acid

Carcinogen: No

SECTION III. PHYSICAL DATA

Appearance: Colorless liquid, vinegar like odor. Melting Point: 17 C (62 F)

Vapor Pressure: 11mm Hg at 20^o C.

Specific Gravity: (Water =1) 1.05

Vapor Density: (Air = 1) 2.1v

Percent Volatile By Volume: 100 (concentrate)

Water Solubility: Complete

Evaporation Rate: (n-butyl acetate = 1): .97

Ph: 2.4 (1.0M Solution)

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: 103 F (closed cup) Extinguishing Media: Use water spray, alcohol foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazard: Highly corrosive to most metals with evolution of Hydrogen gas, which is highly flammable when mixed with air.

SECTION V. HEALTH HAZARD

Orl-rat LD₅₀: 3310 mg/kg concentrate. At 15% solution, 22,064 mg/kg.

Nature of Hazard: Combustible, causes severe burns, harmful if swallowed or inhaled. Keep away from heat, sparks, flame. Do not get in eyes, on skin, on clothing. Avoid breathing vapor, keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. In case of fire, use water spray, alcohol foam, dry chemical, or carbon dioxide. In case of spill, neutralize with soda ash or lime and place in dry container.

SECTION V. HEALTH HAZARD continued

Health Hazards: Causes Sever Burns. May be fatal if swallowed.

First Aid Procedures: Call a physician. In case of eye contact, flush with water for at least 15 minutes. For skin contact, flood with tap water, then water containing sodium bicarbonate. If swallowed, do not give emetics. Give tap water, milk or milk of magnesia. Give whites of eggs beaten with water. Do not get in eyes, on skin or clothing. Do not breathe vapor. If inhaled, remove to fresh air. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION VI. REACTIVITY DATA

Stability: ___ Unstable X Stable Incompatibility (Materials to Avoid): Reacts with metals to produce Hydrogen gas. Chromic acid, nitric acid, sulfuric acid, hydrogen peroxide, alkalies, carbonates, strong bases, amines, phosphorus trochloride, sphosphorus pentachloride.

Decomposition Products: Carbon Monoxide, carbon dioxide.

SECTION VII. SPILL AND DISPOSAL PROCEDURES

Spills: Neutralize with soda ash/slaked lime mixture. Flush area with water.

Disposal: To be performed in compliance with all current local, state and federal regulations. Contact professional disposal service.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection: Provide adequate general mechanical and local exhaust ventilation to meet TLV requirements. Do not get in eyes, on skin, or on clothing. Protect eyes and skin with safety goggles and gloves. Do not breathe vapor.

SECTION IX. HANDLING AND STORING PRECAUTIONS

Special Handling and Storing Precautions: Keep in a tightly closed container in a cool, well ventilated area separated from incompatible materials. Handle empty containers with caution. Wash thoroughly after handling. Do not remove the permanent cap from the individual bottles or transfer into other containers. There is a maximum of one ounce of solution per bottle. If used properly, and the cap is not removed, possible exposure is limited to approximately 1/400th of an ounce per test.

SECTION X. MISCELLANEOUS INFORMATION

NFPA 704:	Health	Flammability	Reactivity	Contact
	2	2	2	3

Do not get in eyes, on skin or clothing. Do not breathe vapor. Wash thoroughly after handling.

Date Issued: 5/4/94

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. In preparation of this document we relied in part upon existing hazard communications provided to us by suppliers in accordance with Occupational Safety and Health Admin., Labor, 29 CFR 1910.1200(e)(3). It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED with respect to such information.