

MATERIAL SAFETY DATA SHEET

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

EUTECTIC CORPORATION

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SECTION I. IDENTIFICATION OF PRODUCT

Product Name: Solution 'B'
Use: In *Eu-Test-It*[™] Base Metal Identification Kit
Size: .50 oz. or 15ml.

SECTION II. HAZARDOUS MATERIALS

Sodium Hydroxide
CAS NO: 1310-73-2
% Solution: Approx. 10%
OSHA PeL (mg/m³): 2C (Ceiling Limit)
ACGIH TLV (mg/m³): 2C
Formula: NaOH diluted in H₂O
Used in Product "Chemical Kit"
Synonym or Cross Reference: Caustic Soda; Sodium Hydrate; Lye
Carcinogen: No

SECTION III. PHYSICAL DATA

Appearance: Clear, colorless viscous liquid, odorless. Melting Point: 12 C (53 F)
Vapor Pressure: 1.0 mm Hg at 20^o C. Specific Gravity: (Water =1) 1.53
Vapor Density: (Air = 1) N/A Percent Volatile By Volume: 10 (21 C)
Water Solubility: Complete Evaporation Rate: (n-butyl acetate = 1): N/A
Ph: 14.0 (1.0M Solution) Boiling Point: 142 C (287 F)

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A (closed cup) Flammable Limits: Upper - N/A Lower - N/A
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Flood with water, do not splash or splatter this material.. Move exposed container from area if it can be done.
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

Nature of Hazard: Poison Danger. Caustic, corrosive, irritant. Causes severe burns, harmful if swallowed or inhaled. Reacts violently with acids. 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 spill, carefully

SECTION V. HEALTH HAZARD continued

neutralize spill with dilute HCl. Flush spill area with water.

Threshold Limit Value (TLV/TWA): 2mg/M3

Reproductive effects: None identified.

Effects of Overexposure:

Inhalation: Severe irritation or burns of respiratory system, pulmonary edema, lung inflammation.

Skin Contact: Burns.

Eye Contact: Burns, permanent eye damage.

Ingestion: Is harmful and may be fatal. Severe burns to mouth, throat, and stomach.

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 induce vomiting. If conscious, give large amounts of water. Follow with diluted vinegar, fruit juice or whites of eggs, beaten with water. 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): Strong acids, most common metals, combustible materials, organic materials, water, zinc, aluminum, peroxides, halogenated hydrocarbons.

Decomposition Products: None identified.

Conditions to Avoid: Heat.

SECTION VII. SPILL AND DISPOSAL PROCEDURES

Spills: Wear self-contained breathing apparatus and full protective clothing. Neutralize with dilute HCl. Flush area with flooding amounts of 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 AND PRECAUTIONARY LABELING

NFPA 704:	Health	Flammability	Reactivity	Contact
	3	0	2	4

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. msmm0B.wps