

Material Safety Data Sheet



Universal Indicator

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Biozoa Biological Supply Company

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Section 1 – Product Description

Product Name: Universal Indicator
Product Code(s): 84-0667, 84-0699
Size: 10mL, 100mL
Chemical Name: N/A
CAS Number: N/A
Formula: N/A
Synonyms: Universal pH Indicator
Distributor: Biozoa Biological Supply Company. Seoul, Geumcheon-gu, Doosan-ro 70, B-1008(Hyundai-Center)
Chemical Information: 02-862-1372 (9am-5pm (ET) M-F)

Section 2 – Hazard Identification

Emergency Overview: Harmful if inhaled or swallowed.
Potential Health Effects:
Eyes: May cause irritation
Skin: May Causes irritation to skin.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May Causes irritation to respiratory tract.

Section 3 – Composition / Information on Ingredients

Principal Hazardous Components: Ethyl Alcohol, denatured (CAS# 64-17-5) 76%
Bromothymol Blue (CAS# 76-59-5) 0.06%
Phenolphthalein (CAS# 77-09-8) 0.06%
Thymol Blue (CAS# 62625-21-2) 0.005%
Methyl Red (CAS# 845-10-3) 0.025%
TLV units: Ethyl Alcohol, denatured - 1000 ppm (TWA)
PEL units: N/A

Section 4 – First Aid Measures

Emergency and First Aid Procedures:

Eyes – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin – After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion – If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Inhalation – In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 – Firefighting Procedures

Flash Point (Method Used): 21 °C
NFPA Rating:

Health: 2

Fire: 3

Reactivity: 0

Extinguisher Media: Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: 3.3% 19.0%

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

Section 6 – Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 – Special Precautions

Precautions to Take in Handling or Storing: Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. Keep container tightly closed in a cool, well-ventilated place.

Section 8 – Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical (General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9- Physical Data

Molecular Weight: N/A

Boiling Point: 75-80 °C

Vapor Density (Air=1): 1.59

Percent Volatile by Volume: 100%

Solubility in Water: Soluble

Melting Point: -114 °C

Vapor Pressure: 44.6 mm Hg at 20 °C

Specific Gravity (H₂O=1): 0.794 at 15.56 °C

Evaporation Rate (BuAc=1): 4.1

Appearance and Odor: Greenish clear liquid with an acid-like odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Material to Avoid): Oxidizers,

Hazardous Decomposition Product: CO_x,

Hazardous Polymerization: Will not occur

Section 11 – Toxicity Data

Toxicity Data: N/A

Effects of Overexposure:

Acute: See Section 2

Chronic: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

Conditions Aggravated by Overexposure: N/A

Target Organs: Kidneys, Liver, Respiratory system, Eyes,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12- Ecological Data

EPA Waste Numbers: N/A

Section 13 – Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 – Transport Information

DOT Proper Shipping Name: UN1170, Ethanol Solution, II, 3

Section 15 – Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: N/A

Name List

N/A

Chemical Category:

N/A

CERCLA Section 103 RQ(lb.): N/A

RCRA Section 261.33: N/A

Section 16 – Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Biozoa Biological Supply makes representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act