

Material Safety Data Sheet



Kastle-Meyer Reagent

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Kastle-Meyer Reagent

Product Code(s): 87-1300

Size: 30 ml

Chemical Name: See Section 3

CAS Number: See Section 3

Formula: See Section 3

Synonyms: Phenolphthalein Potassium Hydroxide Solution

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: DANGER - Causes burns. May cause cancer.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Potassium Hydroxide (CAS#1310-58-3) 20%; Phenolphthalien (CAS # 77-09-8)

TLV units: Potassium Hydroxide - ACGIH-TLV: 2 mg/m3 (Ceiling)

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): N/A

NFPA Rating:

Health: 3

Fire: 0

Reactivity: 1

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

Flammable Limits in Air % by Volume: N/A

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: None

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: Harmful if swallowed.

Avoid contact with skin and eyes.

Do not ingest or take internally. 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: N/A

Vapor Density(Air=1): N/A

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: N/A

Vapor Pressure: N/A

Specific Gravity (H₂O=1): > 1

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Colorless, odorless solution.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Acids,

Hazardous Decomposition Products: K₂O - Potassium Oxide, CO_x,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: ORL LD₅₀ - Rat: 273 mg/kg (Potassium Hydroxide)

Effects of Overexposure:

Acute: See Section 2

Chronic: Mutation data cited. Listed by NTP, IARC as causing cancer.

Conditions Aggravated by Overexposure: Skin disorders,

Target Organs: No information available

Primary Route(s) of Entry: Ingestion, Skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D002

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: UN1814, Potassium Hydroxide Solution, 8, II, 1000

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

WARNING: This product contains a chemical known to the state of California to cause cancer.

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

Name List:

Potassium Hydroxide - No

Phenolphthalein - No

Chemical Category:

Potassium Hydroxide - No

Phenolphthalein - No

CERCLA Section 103 RQ(lb.): Potassium Hydroxide - 1000 lbs.

Phenolphthalein - No

RCRA Section 261.33: Potassium Hydroxide - No

Phenolphthalein - No

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. Carolina Biological Supply makes no 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

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| 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 |