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FLINN

SCIENTIFIC

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Kastle-Meyer Reagent

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9892

Signal Word
DANGER

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral and dermal (Category 5). May be harmful if swallowed or in contact with skin (H303+H313).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).



Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).

Hazard class: Carcinogenicity (Category 2). Suspected of causing cancer (H351). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281). Phenolphthalein is categorized as "Reasonably anticipated to be a human carcinogen" by the National Toxicology Program (first listed in 2000).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethyl alcohol, denatured	64-17-5	C ₂ H ₅ OH	46.07	17%
Sodium hydroxide	1310-73-2	NaOH	39.997	3.3%
Phenolphthalein	77-09-8	C ₂₀ H ₁₄ O ₄	318.31	0.33%
Zinc	7440-66-6	Zn	65.39	1.7%
Water	7732-18-5	H ₂ O	18.00	83%

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue

rinsing.

If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Class II combustible liquid.	NFPA Code
Flash point: 49 °C	H-1
When heated, releases flammable fumes.	F-2
In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).	R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains.

Keep container tightly closed and cool (P233+P235).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use explosion-proof electrical and ventilating equipment (P241). Take precautionary measures against static discharge (P243). Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA); STEL 1000 ppm (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Transparent pale gray or peach solution. Odorless.	pH: Basic
Contains excess (residual) zinc metal as a gray solid.	Used with hydrogen peroxide as a presumptive test for blood.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with heat, open flames, or any source of ignition.

Shelf life: Fair to poor. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Skin and eye irritant, vomiting, nausea.	ORL-RAT LD ₅₀ : 7060 mg/kg (as ethyl alcohol)
Chronic effects: Phenolphthalein is a possible carcinogen.	IHL-RAT LC ₅₀ : 20,000 ppm/10H (as ethyl alcohol)
Target organs: Eyes, liver, kidneys, nerves	SKN-RBT LD ₅₀ : N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 25, 2014
