

Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: MET-5133
 Product Name: Formate Assay Kit (Colorimetric)
 Recommended Use: Laboratory Research Reagents

MANUFACTURER:

Cell Biolabs, Inc.
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SECTION 2. HAZARDS IDENTIFICATION

Formate Standard (Part No. 51332C): One 500 µL vial at 80 mM.

Classification:

Flammable liquids, Category 2 (H225)
 Oxidizing liquids, Category 1 (H271)
 Corrosive to metals, Category 1 (H290)
 Acute toxicity, Oral, Category 4 (H302)
 Skin corrosion, Category 1B (H314)
 Serious eye damage, Category 1 (H318)
 Specific target organ toxicity - repeated exposure, oral, Category 2, Gastrointestinal tract (H373)
 Specific target organ toxicity - single exposure, Category 3, Central nervous system (H336)

Pictogram	
Signal Word	Danger
Hazard Statements: Causes severe skin burns and eye damage (H314). Causes serious eye damage (H318).	
Precautionary Statements: Wash skin thoroughly after handling (P264). Wear protective gloves/ protective clothing/ eye protection/ face protection (P280). IF SWALLOWED: Rinse mouth. Do NOT induce vomiting (P301 + P330 + P331). IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower (P303 + P361 + P353). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor (P304 + P340 + P310). IF IN EYES: Rinse cautiously	

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor (P305 + P351 + P338 + P310). Wash contaminated clothing before reuse (P363). Store locked up (P405). Dispose of contents/ container to an approved waste disposal plant (P501).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formate Standard (Part No. 51332C): One 500 µL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Formic Acid	80 mM	64-18-6

SECTION 4. FIRST-AID MEASURES

- Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- In case of skin contact take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
- In case of eye contact rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
- If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
- Special hazards arising from the substance or mixture: carbon oxides
- Advice for firefighters: wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
- Do not let product enter drains.
- Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7. SAFETY HANDLING AND STORAGE

- Avoid inhalation of vapour or mist..

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product.

- Personal protective equipment: Face shield or safety glasses, gloves. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form: clear, liquid Colour: colourless
- Odor: no data available
- pH: 1.7
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available
- Evaporation rate: no data available
- Vapor pressure: no data available
- Vapor density: 1.010 g/cm³
- Relative density: no data available
- Water solubility: no data available
- Autoignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

SECTION 10. STABILITY AND REACTIVITY

- Stability: no data available
- Reactivity: no data available
- Conditions to avoid: no data available
- Incompatible materials: Strong oxidizing agents, Strong bases, Powdered metals
- Decomposition products: no data available

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute toxicity: No data available
- Skin corrosion/irritation: No data available
- Serious eye damage/irritation: No data available
- Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity: no data available
- Mobility: no data available
- Biodegradation: no data available

- Bioaccumulation: no data available
- Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

SECTION 13. DISPOSAL CONSIDERATIONS

For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.

SECTION 14. TRANSPORT INFORMATION - IATA

- Not Hazardous

SECTION 15. REGULATORY INFORMATION

- SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:
Formic acid: CAS-No. 64-18-6; Revision Date: 2007-07-01
- SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard;
Massachusetts Right To Know Components: Formic acid CAS-No. 64-18-6 Revision Date 2007-07-01
Pennsylvania Right To Know Components: Water, CAS-No. 7732-18-5, Formic acid, Cas No 64-18-6 Revision Date 2007-07-01
New Jersey Right To Know Components: Water CAS-No. 7732-18-5, Formic acid CAS-No. 64-18-6 Revision Date 2007-07-01
California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Cell Biolabs, Inc. shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

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