

## 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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San Diego, CA 92126

**EMERGENCY CONTACT:**


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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)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statements:</b> Causes severe skin burns and eye damage (H314). Causes serious eye damage (H318).	
<b>Precautionary Statements:</b> 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/cm<sup>3</sup>
- 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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