

# Safety Data Sheet

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

Catalog Number:STA-619Product Name:Free Fatty Acid Assay Kit (Fluorometric)Recommended Use:Laboratory Research Reagents

MANUFACTURER:

EMERGENCY CONTACT:

Cell Biolabs, Inc. 7758 Arjons Drive San Diego, CA 92126 +1 858 271 6500 info@cellbiolabs.com

#### SECTION 2. HAZARDS IDENTIFICATION

FFA Standard (Part No. 261801): One 100 µL vial

#### **Classification:**

Flammable liquids, Category 2 (H225) Eye irritation, Category 2A (H319)

Pictogram		
Signal Word	Danger	
Hazard Statemen	ts: Highly flammable liquid and vapour (H225), Causes serious eye irritation	
(H319)		
-	atements: Keep away from heat/sparks/open flames/hot surfaces. No smoking	
- · · -	ainer tightly closed (P233), Ground/bond container adn receiving equipment (P240),	
	of electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools	
- · · · -	autionary measures against static discharge (P243), Wash skin thoroughly after	
handling (P264), Wear protective gloves/protective clothing/eye protection/face protection (P280), If		
on skin or hair: Take off immediately all contaminated clothing (P303 + P361 + P353), IF IN EYES:		
rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
Continue rinsing (P305 + P351 + P338), If eye irritation persists: get medical attention (P337 + P313),		
In case of fire: use dry sand, dry chemnical or alcohol-resistant foam for extinction (P370 + P378),		
Store in a well-ventilated place and keep cool (P403 + P235), Dispose of contents/container to an approved waste disposal plant (P501).		
approved waste di	sposal plant (P301).	



20X Assay Buffer (Part No. 261802): One 1.5 mL vial

#### **Classification:**

Acute toxicity, Oral, Category 4 (H302) Eye irritation, Category 2A (H319) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 2 (H411)

Pictogram	¥2
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Signal Word | Warning

**Hazard Statements:** Harmful if swallowed (H302), Causes serious eye irritation (H319), Toxic to aquatic life with long lasting effects (H411).

**Precautionary Statements:** Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If eye irritation persists: get medical advice/attention (P337 + P313), Collect spillage (P391), Dispose of contents/container to an approved waste disposal plant (P501).

NEM Reagent (Part No. 261805): One 150 µL amber vial

#### **Classification:**

Flammable liquids, Category 4 (H227) Acute toxicity, Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Skin sensitization, Category 1 (H317)

Pictogram		
Signal Word	Danger	
Hazard Statements: Combustible liquid (H227), Fatal if swallwed (H300), Toxic in contact with skin		
(H311), Causes set	vere skin burns and eye damage (H314), may cause an allergic skin reaction (H317).	



**Precautionary Statements:** Keep away from heat/sparks/open flames/hot surfaces.No smoking (P210), Do not breathe dust or mist (P260), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Contaminated work clothing should not be allowed out of the workplace (P272), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth (P301 + P310 P330), IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301 + P330 + P331), If ON SKIN (or hair): Take off immediately all contaminated clothing (P303 + P361 + P353), IF INHALED: remove victim to fresh air and keep at rest in a position 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), If skin irritation or rash occurs: get medical attention (P333 + P313), Take off contaminated clothing and wash before reuse (P362), In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. (P370 + PP378), Store in a well-ventilated place. Keep cool (P403 + P235) Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

Fluorometric Probe (Part No. 261901): One 110 µL\_vial

#### **Classification:**

Flammable liquids, Category 4 (H227) Acute toxicity, Oral, Category 4 (H302)

Pictogram		
Signal Word	Warning	
Hazard Statements	Combustible liquid (H227), Harmful if swallowed (H302).	
Precautionary State	ements: Keep away from heat/sparks/open flames/hot surfaces. No smoking	
(P210), Wash skin th	noroughly after handling (P264), Do not eat, drink, or smoke when using this	
product (P270), Wea	r protective gloves/protective clothing/eye protection/face protection (P280), IF	
SWALLOWED: cal	a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), In	
case of fire: use dry sand, dry chemnical or alcohol-resistant foam for extinction (P370 + P378), Store		
in a well-ventialated	place and keep cool (P403 + P235), Dispose of contents/container to an approved	
waste disposal plant	(P501).	

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

FFA Standard (Part No. 261801): One 100 µL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Ethanol	100%	64-17-5



#### 20X Assay Buffer (Part No. 261802): One 1.5 mL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Triton X-100	1%	9002-93-1

NEM Reagent (Part No. 261805): One 150 µL amber vial

CHEMICAL NAME	CONCENTRATION	CAS #
Dimethyl Sulfoxide	100%	67-68-5
N-Ethylmaleimide	20-200 mM	128-53-0

#### Fluorometric Probe (Part No. 261901): One 110 µL\_vial

CHEMICAL NAME	CONCENTRATION	CAS #
Dimethyl Sulfoxide	100%	67-68-5
Proprietary Compound A	10-15 mM	

#### SECTION 4. FIRST-AID MEASURES

- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
- IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
- IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or CO2
- Special protective equipment: Self-contained breathing apparatus

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Evacuate area
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal.
- Avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.



#### SECTION 7. SAFETY HANDLING AND STORAGE

- Should be handled by trained personnel observing good laboratory practices.
- Avoid breathing vapor.
- Avoid skin contact or swallowing.
- May cause allergic reaction in sensitized individuals.
- Store in properly labeled containers at temperature on label

#### 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, protective clothing, suitable respiratory equipment in cases of inadequate ventilation.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form: liquid
- Odor: no data available
- pH: no data available
- 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: no data available
- 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: no data available
- Decomposition products: no data available

#### SECTION 11. TOXICOLOGICAL INFORMATION

- Acute toxicity
  - Ethanol: LD50 Oral 7.060 mg/kg (rat), LC50 Inhalation 20000 ppm 10h (rat)
  - Triton X-100: LD50 oral 1.800 mg/kg (rat), LD50 dermal 8.000 mg/kg (rabbit)



- N-Ethylmaleimide: LD50 Oral rat 25 mg/kg, LD50 Dermal guinea pig 4 h 500 mg/kg
- Dimethyl Sulfoxide:
  - LD50 Oral rat 14.500 mg/kg
  - LC50 Inhalation rat 4 h 40250 ppm
  - LD50 Dermal rabbit > 5.000 mg/kg
- Proprietary Compound A: no data available
- Skin corrosion/irritation
  - Ethanol: Irritating to skin 24h (rabbit)
  - All other hazardous components: no data available
- Serious eye damage/irritation
  - Ethanol: Mild eye irritation 24h Draize test (rabbit)
  - Triton X-100: Moderate eye irritation-24 h (rabbit)
  - All other hazardous components: no data available
- Respiratory or skin sensitization
  - N-Ethylmaleimide: may cause sensitization by skin contact
  - All other hazardous components: no data available
  - Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

## SECTION 12. ECOLOGICAL INFORMATION

• Ecotoxicity:

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- Triton X-100: Toxicity to Daphnia and other aquatic invertebrates- EC50 26 mg/L-48h (Daphnia)
- Dimethyl Sulfoxide:
  - Toxicity to fish: LC50 Pimephales promelas (fathead minnow) 34.000 mg/l 96 h, LC50 Oncorhynchus mykiss (rainbow trout) 35.000 mg/l 96 h
  - Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia pulex (Water flea) - 27.500 mg/l
  - Toxicity to algae: EC50 Lepomis macrochirus (Bluegill)- > 400.000 mg/l 96h
- All other hazardous components: no data available
- Mobility: no data available
- Biodegradation: no data available
- Bioaccumulation: no data available

# 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

• Hazard Class: Not Hazardous



#### SECTION 15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture: no data available
- Chemical safety assessment: no data available

#### **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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