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

Catalog Number: STA-384
Product Name: Total Cholesterol Assay Kit (Colorimetric)
Recommended Use: Laboratory Research Reagents

MANUFACTURER: Cell Biolabs, Inc.
7758 Arjons Drive
San Diego, CA 92126

EMERGENCY CONTACT: +1 858 271 6500
info@cellbiolabs.com

SECTION 2. HAZARDS IDENTIFICATION

Cholesterol Standard (Part No. 239001): One 50 µL vial of a 10 mM cholesterol solution in ethanol

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

Pictogram

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
</table>

Hazard Statements: Highly flammable liquid and vapour (H225), Causes serious eye irritation (H319)

Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Keep container tightly closed (P233), Ground/bond container adn receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools (P242), Take precautionary 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 chemical 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).

50X Colorimetric Probe (Part No. 238401): One 200 µL tube in DMSO

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

Pictogram

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Warning</th>
</tr>
</thead>
</table>

Hazard Statements: Combustible liquid (H227), Harmful if swallowed (H302).

Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), 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), In case of fire: use dry sand, dry chemical 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).

Cholesterol Esterase (Part No. 239003): One 20 µL vial
Cholesterol Oxidase (Part No. 239004): One 200 µL 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)
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).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Cholesterol Standard (Part No. 239001): One 50 µL vial of a 10 mM cholesterol solution in ethanol

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CONCENTRATION</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>10 mM</td>
<td>64-17-5</td>
</tr>
</tbody>
</table>

50X Colorimetric Probe (Part No. 238401): One 200 µL tube in DMSO

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<tr>
<th>CHEMICAL NAME</th>
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<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Sulfoxide</td>
<td>100%</td>
<td>67-68-5</td>
</tr>
<tr>
<td>Proprietary Compound A</td>
<td>10-15 mM</td>
<td></td>
</tr>
</tbody>
</table>

Cholesterol Esterase (Part No. 239003): One 20 µL vial
Cholesterol Oxidase (Part No. 239004): One 200 µL vial

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<tr>
<th>CHEMICAL NAME</th>
<th>CONCENTRATION</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triton X-100</td>
<td>0.1%</td>
<td>9002-93-1</td>
</tr>
</tbody>
</table>
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)
  - Proprietary Compound A: no data available
  - Dimethyl Sulfoxide:
    - LD50 Oral - rat - 14.500 mg/kg
    - LC50 Inhalation - rat - 4 h - 40250 ppm
    - LD50 Dermal - rabbit - > 5.000 mg/kg
- Skin corrosion/irritation
  - Ethanol: Irritating to skin 24h (rabbit)
  - Triton X-100: no data available
  - 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: no data available
  - Ethanol: no data available
  - Triton X-100: no data available
  - 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
  - Ethanol: no data available
  - 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
  - Proprietary Compound A: no data available
- Mobility: no data available
- Biodegradation
  - EDTA: no data available
  - Triton X-100: not readily biodegradable
  - All other hazardous components: no data available
- Bioaccumulation:
  - Triton X-100: no data available
  - All other hazardous components: 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).

Revised 06/27/2018