

## Safety Data Sheet

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

Catalog Number: AKR-110  
 Product Name: Rapid GST Inclusion Body Solubilization and Renaturation kit  
 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

Detergent Solubilization Solution (Part No. 411002): One bottle - 60 mL

**Classification:**

Acute toxicity, Inhalation, Category 2 (H330)  
 Skin irritation, Category 2 (H315)  
 Serious eye damage, Category 1 (H318)

<b>Pictogram</b>	
<b>Signal Word</b>	<b>Danger</b>
<p><b>Hazard Statements:</b> Causes skin irritation (H315), Causes serious eye damage (H318), Fatal if inhaled (H330).</p>	
<p><b>Precautionary Statements:</b> Do not breathe dust/fume/gas/mist/vapors/spray (P260), Wash skin thoroughly after handling (P264), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), Wear respiratory protection (P284), IF ON SKIN: Wash with plenty of soap and water (P302 + P352), IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338), Immediately call a POISON CENTER / doctor (P310), If skin</p>	

irritation occurs: get medical advice/attention (P332 + P313), Store in a well-ventilated place. Keep container tightly closed (P403 + P233), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

Detergent Neutralization Solution (Part No. 411003): One bottle - 60 mL


**Classification:**

Acute toxicity, Oral, Category 4 (H302)

Eye irritation, Category 2A (H319)

Acute aquatic toxicity, Category 2 (H401)

Chronic aquatic toxicity, Category 2 (H411)

<b>Pictogram</b>	
<b>Signal Word</b>	<b>Warning</b>
<b>Hazard Statements:</b> Harmful if swallowed (H302), Causes serious eye irritation (H319), Toxic to aquatic life with long lasting effects (H411).	
<b>Precautionary Statements:</b> 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**

Detergent Solubilization Solution (Part No. 411002): One bottle - 60 mL

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Compound A	10%	

Detergent Neutralization Solution (Part No. 411003): One bottle - 60 mL

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Compound B	10%	

#### 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 CO<sub>2</sub>
- 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
  - Proprietary Compound A: LD50 oral >5.000 mg/kg (rat), LC50 inhalation 0,05-0,5 mg/l 4h (rat)
  - Proprietary Compound B: LD50 oral 1.800 mg/kg (rat), LD50 dermal 8.000 mg/kg (rabbit)
- Skin corrosion/irritation
  - Proprietary Compound A: Irritating to skin
  - Proprietary Compound B: no data available
- Serious eye damage/irritation
  - Proprietary Compound A: Risk of serious damage to eyes (rabbit)
  - Proprietary Compound B: Moderate eye irritation-24 h (rabbit)
- Respiratory or skin sensitization
  - Proprietary Compound A: Does not cause skin sensitization (guinea pig)
  - Proprietary Compound B: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available

- Reproductive toxicity: no data available

## **SECTION 12. ECOLOGICAL INFORMATION**

- Ecotoxicity
  - Proprietary Compound A: Toxicity to fish: EC50 107 mg/l 96h (Danio rerio); Toxicity to Daphnia and other aquatic invertebrates: LC50 29,7 mg/l 48h (Daphnia magna); Toxicity to algae: EC50 79 mg/l 72h (Desmodesmus subspicatus); Toxicity to bacteria: Sludge treatment 100mg/l 3h.
  - Proprietary Compound B: Toxicity to Daphnia and other aquatic invertebrates- EC50 26 mg/L-48h (Daphnia)
- Mobility: no data available
- Biodegradation
  - Proprietary Compound A: readily biodegradable
  - Proprietary Compound B: not readily biodegradable
- 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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