



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Identity: CS846 ELISA Kit (for in vitro diagnostic use only)
Part Number: 60-1004

Manufacturer: IBEX Pharmaceuticals Inc.
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Montréal, Québec, H4P 1P7 Canada
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In case of emergency, call the Poison Control Center for your area.

Note: To the best of our knowledge, the product does not pose a hazard equivalent to the hazard posed by the individual ingredients in their pure form. We have thereby classified this product in its entirety as non-hazardous.

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

| <u>Non-Hazardous Component</u> | <u>Ingredients</u> |
|-------------------------------------|--|
| CS846 Standard Stock | Bovine Aggrecan in protein based buffer with BSA (Bovine Serum Albumin) |
| CS846 PG-Biotin | PG-Biotin (Proteoglycan-Biotin) in protein based buffer with BSA |
| CS846 Antibody | CS846 Antibody from mouse in protein based buffer with BSA |
| Strep-HRP Conjugate | Streptavidin-HRP (Horseradish Peroxydase) in protein based buffer with BSA |
| Wash Buffer | Buffered saline with non-ionic detergent |
| Tetramethylbenzidine Solution (TMB) | Tetramethylbenzidine in proprietary buffer |
| Precoated ELISA Plate | Goat anti-mouse (GAM) IgG in protein based buffer with BSA |

| <u>Hazardous Component</u> | <u>Ingredients</u> |
|----------------------------|---|
| Assay Buffer | Protein based buffer with BSA, Normal goat serum and 0.25% ProClin 300 |
| Buffer III | Protein based buffer with BSA and 0.5% ProClin 300 |
| Stop Solution | 0.2 M Sulfuric acid |



1) **ProClin 300** (ProClin is a registered trademark of Rohm and Haas Co.)

- Ingredients: (a) Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (b) dipropylene glycol
- Synonyms: Slaoff 300, MBC 215, Kathon CG/ICP II
- CAS Number: (a) 55965-84-9 (b) 110-98-5
- EC Number: (a) N/A (b) 203-821-4

2) **Sulfuric Acid**

- Molecular Formula: H₂SO₄
- Synonyms: Oil of Vitriol; Dihydrogen Sulfate, Vitriol Brown Oil, Babcock acid;
- CAS Number: 7664-93-9
- EC Number: 231-639-5

SECTION 3 - HAZARDS IDENTIFICATION

Information on the toxicity of ProClin 300 at the supplied concentrations is unavailable. The following is applicable to 1) **pure** ProClin 300 and 2) **concentrated** Sulfuric Acid:

1) **Pure ProClin 300**

- Corrosive
- Combustible liquid
- Causes skin and eye burns
- Harmful if swallowed or inhaled

2) **Sulfuric Acid**

- Corrosive
- Combustible liquid
- Causes skin and eye burns
- Harmful if swallowed or inhaled

SECTION 4 - FIRST AID MEASURES

Ingestion: Do not induce vomiting. Get immediate medical attention.

Skin contact: Wash skin with soap and plenty of water. Get immediate medical attention if irritation occurs.

Eye contact: Immediately flush eyes with running water for at least 15 minutes. Get immediate medical attention if irritation occurs.



SECTION 5 - FIRE FIGHTING MEASURES

- 1) *ProClin 300*: Not available at supplied concentration.
- 2) *Stop Solution (Sulfuric Acid)*
- Flammability:** Non-Flammable
 - Auto-Ignition Temperature:** Not applicable
 - Flash Points:** Not applicable
 - Flammable Points:** Not applicable
 - Product of Combustion:** Not applicable
 - Fire Fighting Media and Instructions:** Not applicable
 - Special Remarks on Fire/Explosion Hazards:** Not applicable
 - Suitable Extinguishing Agents:** Not applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precaution: Kit contains material of biological origin of small volumes. Still, avoid personal contact and follow Standard Precautions during clean-up procedure.

Environment Hazard: Not applicable due to small volume of reagents in kits

Small spill and leak procedures: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid contact with skin or ingesting reagents in kits. Wear a lab coat, gloves and safety glasses when working with product

Storage: Keep all containers tightly closed in a cool and ventilated area, away from incompatible materials. Store according to product insert instructions.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| CAS # | Chemical Name | ACGIH (TLV-TWA) |
|-----------|----------------------------|---|
| N/A | Proclin | N/A for supplied concentration |
| 7664-93-9 | Conc. Sulfuric acid | 0.2 mg/m ³ (Thoracic fraction) |

Wear proper personal equipment when handling this liquid.

*ACGIH: American Conference of Governmental Industrial Hygienists
TLV: Threshold Limit Values
TWA: TLV-Time Weighted Average

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- 1) **Physical State:** Liquid
Solubility: Soluble in water
Color: Light yellow
Odor: Odorless
Taste: Not available
pH: 4.1 at 100 g/L

- 2) **Physical State:** Liquid
Solubility: Soluble in water with release of heat
Color: Clear color to yellow
Odor: Odorless
Taste: Not available
pH: 0.3

SECTION 10 - STABILITY AND REACTIVITY

- 1) **Chemical Stability:** Not available at supplied concentration.
Conditions to Avoid: Not available at supplied concentration.
Incompatibilities with Other Materials: Not available at supplied concentration.
Hazardous Decomposition: Not available at supplied concentration.

- 2) **Chemical Stability:** Sulfuric acid reacts vigorously, violently or explosively with many organic and inorganic chemicals and with water.
Conditions to Avoid: Excess heat, exposure to moist air or water. Note: Use great caution in mixing with water due to heat evolution that causes spattering. Always add the acid to water, never the reverse.
Incompatibilities with Other Materials: Metals, oxidizing agents, reducing agents, bases, acrylonitrile, chlorates, finely powdered metals, nitrates, perchlorates, permanganates, epichlorohydrin, aniline, carbides, fulminates, picrates, organic materials and flammable liquids.
Hazardous Decomposition: Oxides of sulfur.

SECTION 11 - TOXICOLOGICAL INFORMATION

No information available at supplied concentrations.



SECTION 12 – ECOLOGICAL INFORMATION

No information available at supplied concentrations.

SECTION 13 – DISPOSAL INFORMATION

For every component, waste must be disposed according to federal, state and local environment control regulations.

SECTION 14 – TRANSPORTATION INFORMATION

No information available at the supplied concentrations.

SECTION 15 – OTHER INFORMATION

This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. IBEX Pharmaceuticals Inc. shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.