

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

**Product Identity:** CS846 ELISA Kit

**Part Number:** 60-1004

Manufacturer: IBEX Pharmaceuticals Inc.  
5485 Rue Paré, Suite 100  
Montréal, Québec, H4P 1P7 Canada  
Tel : (514) 344-4004 Fax : (514) 344-8827

Product use: for in vitro use only.

## SECTION 2 - HAZARDS IDENTIFICATION

*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.*

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 3 - COMPOSITION / 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
Streptavidin-HRP	Streptavidin conjugated to Horseradish Peroxidase 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 IgM in protein based buffer with BSA

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

**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) propylene glycol (c) alkyl carboxylate
- Synonyms: Kathon CG/ICP II, Slaoff 360, MBC 215
- CAS Number: (a) 55965-84-9 (b) N/A (c) N/A
- EC Number: (a) N/A (b) N/A (c) N/A

**2) Sulfuric Acid**

- Molecular Formula: H<sub>2</sub>SO<sub>4</sub>
- Synonyms: Oil of Vitriol; Dihydrogen Sulfate, Vitriol Brown Oil, Babcock acid;
- CAS Number: 7664-93-9
- EC Number: 231-639-5

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	<b>ProClin</b>	N/A for supplied concentration
7664-93-9	<b>Conc. Sulfuric acid</b>	0.2 mg/m <sup>3</sup> (Thoracic fraction)

Wear eye and skin protection 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:** 1.2 at 5 g/L

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

**Toxicity:** No data available  
**Persistence and degradability:** No data available  
**Bioaccumulative potential:** No data available  
**Mobility in soil:** No data available  
**PBT and vPvB assessment:** No data available  
**Other adverse effects:** No data available

SECTION 13 - DISPOSAL INFORMATION

**Waste Disposal:**  
Incinerate or bury as a solid in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

**Container Disposal:**  
Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

SECTION 14 – TRANSPORTATION INFORMATION

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

SECTION 15 – REGULATORY INFORMATION

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

SECTION 16 – OTHER INFORMATION

**Date of revision:** Feb 14, 2016

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