

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Identity: C2C ELISA Kit

Part Number: 60-1001-001

Manufacturer: IBEX Pharmaceuticals Inc.
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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>
C2C Standard Stock	C2C peptide in protein based buffer with BSA (Bovine Serum Albumin)
C2C Antibody	C2C Antibody from mouse in protein based buffer with BSA
GAM-HRP	Purified goat anti-mouse antibody 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
Mixing plate	Polypropylene 96-well U-bottom microplate
Precoated ELISA Plate	C2C conjugated-peptide 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) 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: H₂SO₄
- 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	ProClin	N/A for supplied concentration
7664-93-9	Conc. Sulfuric acid	0.2 mg/m3 (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

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