



MATERIAL SAFETY DATA SHEET

I. **Manufacturer:**

Akers Biosciences, Inc.
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II. **Product:**

BreathScan[®] Disposable Alcohol Detector

Concentrations: Expressed as average weight of the component relative to the total weight of each BreathScan[®] breath alcohol detector (% w/w).

Components:

- Synthetic Amorphous Silica ($\text{SiO}_2 \cdot x\text{H}_2\text{O}$) 7.13% or more
- Sulfuric Acid (H_2SO_4) 3.47% or less
- Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$) less than 0.1%

III. **Physical Data:**

Shell glass ampoule containing yellow granules, encased in PETG tube closed on both ends by HDPE porous filters.

Chemical Data:

Ampoule contents react with alcohol

IV-VI **Hazards / Routes of Entry / Exposure Limits:**

The chemical, toxicological and physical properties of these products have not been determined. The levels of Sulfuric Acid and Potassium Dichromate in the test unit may be well below the threshold level required to precipitate the response shown for the parent material.



VII-IX Safe Handling Procedures / Control Measures / Emergency First Aid:

Normal use is non-hazardous. Misuse that will allow contact with broken glass ampoules and its contents may be hazardous.

Inhalation:

Exposure to dust may cause nasal irritation, lung irritation, coughing, labored breathing, wheezing and chest pain. If dust is generated, wear NIOSH/MSDS approved respirator chosen based on exposure level. In case of exposure, remove to fresh air.

Eye Contact:

Contents are corrosive and broken ampoules will create glass splinters. Direct contact may cause severe damage. Safety glasses should be worn when handling raw material. In case of exposure, immediately wash from eyes with large amounts of water, occasionally lifting upper and lower eyelids. Get medical attention immediately.

Skin Contact:

Gloves should be worn when handling raw material. In case of exposure, wash with soap and water.

Ingestion:

May cause severe burning in mouth, throat and abdomen. If ingested, give milk and water for dilution. Vomiting should be induced after fluids are given. Get prompt medical attention.

Disposal:

The Detectors have no special disposal requirements and can be discarded with ordinary trash.