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MSDS Information for:
Cat. #OP-0003
EpiQuik™ Whole Cell Extract Kit

A Material Safety Data Sheet (MSDS) for the product as a whole is not required, as it is a kit consisting of individual components.

The following components are defined as hazardous (See MSDS page)

100 X DTT solution

The following components are defined as non-hazardous and do not require MSDS. The products do not contain any hazardous components above 1% or any carcinogens above 0.1% as defined in 29 CFR 1910. 1200, the OSHA Hazard Communication Standard.

5 X extraction buffer
100 X Protease inhibitor cocktail (PIC)

Material Safety Data Sheet

Section 1. Identification

Product Name: *EpiQuik™* Whole Cell Extract Kit

Product No. OP-0003
Supplier Epigentek Group Inc.
110 Bi County Blvd. Ste 122
Farmingdale, NY 11735

In Case of Emergency 631-755-0888

Section 2. Composition, Information on Ingredients

Ingredient Name
DTT

Cas# 3483-02-3

Section 3. Hazards Identification

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Can cause nausea, headache and vomiting. Exposure may result in blood in urine, difficulty breathing, irregular heartbeat, anemia, weakness, drunkenness, bluish skin color, lung congestion, kidney damage, paralysis, convulsions unconsciousness and coma. Thiols may cause central nervous system depression

Ingestion: Exposure can cause nausea, headache, vomiting, diarrhea, weakness, drunkenness, restlessness, bluish skin color, paralysis and coma.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin. May cause dermatitis.

Eye Contact: Causes irritation, redness, and pain.

Chronic Exposure: No information found.

Section 4. First Aid Measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Section 5. Fire Fight Measures

Fire Flash point: > 109°C. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Extinguishing Media Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6. Accident Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.
Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Section 7. Handling and Storage

Product must be refrigerated at 2 – 8°C (36 – 46°F). Keep in a tightly closed container. Protect against physical damage. Handle and store under nitrogen. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8. Exposure Control, Personal Protection

Airborne Exposure Limits	None established.
Ventilation System	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition, for details.
Personal Respirators	For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection	Wear protective gloves and clean body-covering clothing.
Eye Protection	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9. Physical and Chemical Properties

Appearance	White crystals.
Odor	Thiol odor.
Solubility	Soluble in water.
Specific Gravity	1.0
pH	4.3 (5% solution)
% Volatiles by Volume	0
Boiling Point	125 – 130°C (257 – 266°F)
Melting Point	42 – 43°C (108 – 109°F)
Vapor Density (Air=1)	5.3
Vapor Pressure (mm Hg)	No information found.
Evaporation Rate (BuAc=1)	No information found.

Section 10. Stability and Reactivity

Stability	Stable under ordinary conditions of use and storage. Hygroscopic.
Decomposition Products	Burning may produce carbon monoxide, carbon dioxide, sulfur oxides.
Hazardous Polymerization	Will not occur.
Incompatibilities	Strong oxidizers.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.

Section 11. Toxicological Information

LD50	Oral rat LD50: 400 mg/kg.
Carcinogenicity	No information found.

Section 12. Ecological Information

No information available.

Section 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14. Transport Information

No information available

Section 15. Regulatory Information

US FEDERAL: Listed on the TSCA inventory.

Section 16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.