

Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ViroTag® EV71

CATALOG NUMBER: VT-0005-0001

SYNONYMS: Anti-Enterovirus Serotype 71 – Channel 1

COMPANY: Virocyt, LLC

ADDRESS: 100 Technology Drive, Suite 325
Broomfield, CO 80021

EMERGENCY PHONE: 720-599-3700

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Proprietary mix of fluorochrome-conjugated mouse monoclonal antibody, contains 0.09% Sodium Azide; does not contain protein from any other animal sources.

SECTION 3: HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW: Danger. Fatal if swallowed or in contact with skin. Very toxic to aquatic life with long lasting effects. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing. IF SWALLOWED immediately call a POISON CENTER or doctor/physician. Handle with extreme caution. To the best of our knowledge, the health hazards of this product have not been thoroughly investigated. Limited evidence exists of carcinogenic effect. Harmful by inhalation, contact with skin, and if swallowed.

SECTION 4: FIRST AID MEASURES

EYES: Potential eye irritant. If contact occurs, wash with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical attention.

SKIN: Potential eye irritant. If contact occurs, remove contaminated clothing. Wash exposed are with soap and water. Take victim immediately to hospital.

INGESTION: Harmful if ingested. If swallowed, wash mouth out with water and seek medical attention.

INHALATION: Potentially harmful if inhaled. Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical powder or appropriate foam extinguisher.

SPECIAL HAZARDS: Sodium oxides.

SPECIAL FIRE FIGHTING PROCEDURES: An approved self-contained breathing apparatus and protective clothing should be used.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Using respiratory protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Collect and dispose of all waste in accordance with applicable laws.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Avoid formation of dust and aerosol. Provide appropriate exhaust ventilation at places where dust is formed. Using safe laboratory practices.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed in a dry and well-ventilated place. Never allow this product to get in contact with water during storage. Do not store near acids. Heat sensitive. Store dyes at 4°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Avoid contact with skin, eye and clothing. Wash hands before breaks and immediately after handling the product.

VENTILATION: Local Exhaust.

RESPIRATORY PROTECTION: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 or type P3 respirator cartridges as a backup to engineering controls.

EYE PROTECTION: Face shield and safety glasses use equipment for eye protection tested and approved under appropriate government standards.

SKIN PROTECTION: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Prevent leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pink

ODOR: None

PHYSICAL STATE: Liquid

BOILING POINT: Not determined

MELTING POINT: Not determined

VAPOR PRESSURE (mmHg): Not available

VAPOR DENSITY (Air=1): Not available

SPECIFIC GRAVITY (H₂O =1): 1

SOLUBILITY IN WATER: High

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID (STABILITY): An explosion occurred when a mixture of sodium azide, methylene chloride, dimethyl sulfoxide, and sulfuric acid were being concentrated on a rotary evaporator.

INCOMPATIBILITY (MATERIAL TO AVOID): halogenated hydrocarbon, metals, acids, acid chlorides

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute toxicity: LD₅₀ oral – Rabbit - 10mg/kg

LC₅₀ inhalation – Rat – 37mg/m³

LD₅₀ Dermal – Rabbit – 20mg/kg

Lowest Observed Adverse Effect Level (LOAEL) – 1.25mg/kg body weight

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Toxicity: To Daphnia and other aquatic invertebrates

EC50 – Daphnia pulex (Water flea) – 4.2mg/l – 48h

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effect.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of waste according to prescribed federal, state and local guidelines. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mic the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: TRANSPORT INFORMATION

TRANSPORTATION INFORMATION: Not hazardous for transportation at supplied volumes (<10µl)

SECTION 15: REGULATIONS

REGULATIONS:

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302: Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

SARA311/312 Hazards

Acute health hazard, chronic health hazard

Massachusetts Right to Know Components

Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

Pennsylvania Right to Know Components

Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

New Jersey Right to Know Components

Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Full test of H-statements referred to under sections 2 and 3

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H300	Fatal if swallowed
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin

HMIS Rating

Health Hazard: 4

Flammability: 0

Physical Hazard: 0

NFPA Rating

Health Hazard: 4

Fire Hazard: 0

Reactivity Hazard: 0

OTHER INFORMATION: The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experience in handling potentially hazardous chemicals. Virocyt shall not be held liable for any damage resulting from handling or from contact with the above product.