

Section 1: Identification

Product Name: EpiStart™ DNA Methylation (5-mC) ELISA Kit

Product No. : T-1231

Company: EpigenTek Group Inc.
110 Bi County Blvd. Ste 122
Farmingdale, NY 11735

Chemical Name/Synonyms: SS (Stop Solution)

The following components are defined as non-hazardous and do not require a Safety Data Sheet. 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:

WB (Working Wash Buffer)

BS (Binding Solution)

NC (Negative Control, 50 µg/ml)

PC (Positive Control, 50 µg/ml)

mcAB (5-mC Antibody)

SI (Signal Indicator)

ES (Enhancer Solution)

DS (Developer Solution)

DNA Samples (Low and High Methylation, each 50 µg/ml)

8-Well Assay Strips (With Frame), Blue Reader Card, Adhesive Film Strips, Instructor Guide, Student Guide

For information about this SDS: 631-755-0888

In case of emergency call 911.

Section 2: Hazard(s) Identification

Hazard Classification:

In accordance with 29 CFR 1910 (OSHA HCS) and Regulation (EC) No 1272/2008 (CLP)

Corrosive to metals (Category 1), H290

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Signal Word(s): Danger

Hazard Statements:

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

Pictograms:



Precautionary Statements:

P234

Keep only in original container.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+ P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
 P363 Wash contaminated clothing before reuse.
 P390 Absorb spillage to prevent material damage.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P406 Store in corrosive resistant stainless steel container with a resistant inner liner.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Description of other hazards: none.

Section 3: Composition/ Information on Ingredients

Specific chemical identity and/or exact percentage of composition have been withheld as a trade secret is required.

Chemical Name	Synonym/Identifier	CAS#	Conc.
Stop Solution	SS EC No 231-595-7 Index No 017-002-01-X REACH Reg. No 01-2119484862-27-xxxx	7647-01-0	0.1 – 1 mol/L

Section 4: First-Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

After skin contact: In case of 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 immediately.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

After inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.

After swallowing: Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5: Fire-Fighting Measures

Fire: Not considered to be a fire hazard. May react with metals or heat to release flammable hydrogen gas.

Suitable extinguishing agents: Water or water spray. Neutralize with soda ash or slaked lime.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal precautions: Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Measures for environmental protection: Do not let product enter drains.

Measures for cleaning/collecting: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Absorb onto vermiculite and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wear appropriate NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles and other protective clothing. Mechanical Exhaust required.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Breathing equipment: Following the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.

Protection of hands: Wear appropriate protective gloves to prevent skin exposure.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

Clothing: Wear appropriate protective clothing to minimize contact with skin

Section 9: Physical and Chemical Properties

Form: Liquid.

Odor: Odorless.

Odor threshold: No data available.

pH: 2.02 (0.01 N).

% Volatiles by volume @ 21°C: 100.

Melting point/melting range: No data available.

Boiling point/boiling range: 101 – 103°C (214 – 217°F)

Flash point: Not applicable.

Evaporation rate: No data available.

Flammability: No data available.

Upper/lower flammability or explosive limits: No data available.

Auto ignition temperature: No data available.

Danger of explosion: Not applicable.
Vapor pressure: No data available.
Vapor density: No data available.
Density: 1.05 @ 15°C (59°F).
Solubility in/Miscibility with water: Infinitely soluble.

Section 10: Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Heat, direct sunlight.

Incompatible materials: A strong mineral acid, concentrated hydrochloric acid is highly reactive with strong bases, metals, metal oxides, hydroxides, amines, carbonates and other alkaline materials. Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde.

Hazardous decomposition products: When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat and toxic and corrosive fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.

Section 11: Toxicological Information

Acute toxicity: Not classified.

Potential routes of exposure/potential health effects:

Stop Solution

Hydrogen Chloride (7647-01-0)

Ingestion: LD50 (rabbit): 900 mg/kg.

Skin corrosion/irritation: LD50 (rabbit): 5010 mg/kg.

Eye: rabbit, corrosive to eyes.

Inhalation: LD50 (rat): 3124 ppm/1H.

Carcinogenic effects: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Mutagenic effects: No data available.

Reproductive toxicity: No data available.

Sensitization: Did not cause sensitization on laboratory animals.

Target organs: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: May be harmful to aquatic organisms. Do not empty into drains.

Mobility: May be harmful for plant growth.

Biodegradation: No data available.

Bioaccumulation: Low potential for bioaccumulation.

Section 13: Disposal Considerations (non-mandatory)

Avoid release into environment. Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information (non-mandatory)

DOT regulations:

- **Hazard class:** Class 8 – Corrosive Materials

Section 15: Regulatory Information (non-mandatory)

Chemical Inventory Status

Component(s)	TSCA	EC	Japan	Australia
Stop Solution	Yes	Yes	Yes	Yes

Dangerous substances with restrictions (EU REACH, Annex XVII)

Ingredient	Name acc. to inventory	Restriction	No.
Hydrogen Chloride (7647-01-0)	This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3

Section 16: Other Information

SDS date of preparation/update: September 17, 2026