

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** EpiNext™ RRBS Library Fast Kit

**Product No. :** P-1069

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

**Chemical Name/Synonyms:** MP (Modification Powder)  
DS (Desulphonation 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:

MB (Modification Buffer)  
DPB (DNA Purification Buffer)  
ES (Elution Solution)  
FC (F-Spin Column)  
CT (F-Collection Tube)  
MSPI (MSPI (20 U/μl))  
DB (10X Digestion Buffer)  
RB (5X Reaction Buffer)  
REM (Reaction Enzyme Mix)  
AD3 (3'-Adaptor (10 μM))  
AD5 (5'-Adaptor (10 μM))  
MBB (MQ Binding Beads)  
HPM (2X HiFi PCR Master Mix)  
PU (Primer U (10 μM))  
PI (Primer I (10 μM))  
EB (Elution Buffer)

**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)**

Acute oral toxicity (Category 4), H302  
Serious Eye Damage/Eye Irritation (Category 1), H318  
Corrosive to Metals (Category 1), H290  
Skin corrosion (Category 1A), H314  
Short-term (acute) aquatic hazard (Category 3), H402

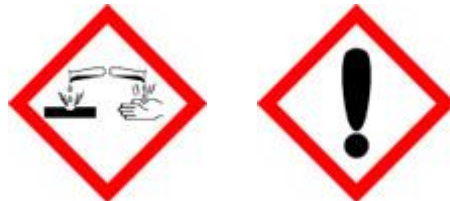
**Signal Word(s):** Danger

**Hazard Statements:**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.  
 H402 Harmful to aquatic life.

**Pictograms:**



**Precautionary Statements:**

P234 Keep only in original container.  
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 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.  
 P319 Get medical help if you feel unwell.  
 P363 Wash contaminated clothing before reuse.  
 P390 Absorb spillage to prevent material damage.  
 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:** Contact with acids liberates toxic gas

**Section 3: Composition/ Information on Ingredients**

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

Chemical Name	Synonym/Identifier	CAS#	Hazards	Conc.
Modification Powder	MP EC No 231-673-0 Index No 016-063-00-2	7681-57-4	Xi, C	100%
Desulphonation Solution	DS EC No 215-185-5 Index No 011-002-00-6	1310-73-2	C	10 – 20%

#### Section 4: First-Aid Measures

**General advice:** First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

**After skin contact:** Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Rinse skin with water/shower. Call a physician immediately.

**After eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Immediately call in ophthalmologist. Remove contact lenses.

**After inhalation:** Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

**After swallowing:** Make victim drink water (two glasses at most), do NOT induce vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

#### Section 5: Fire-Fighting Measures

**Fire:** Substances are nonflammable.

**Suitable extinguishing agents:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special hazards arising from the substance or mixture:** Thermal decomposition and ambient fires can lead to release of irritating gases and vapors

**Hazardous Combustion Products:** Sulfur oxides, sodium oxides.

**Advice for firefighters:** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing

#### Section 6: Accidental Release Measures

**Personal precautions:** Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation and inhalation. Avoid contact with skin, eyes or clothing.

**Measures for environmental protection:** Do not let product enter drains; do not flush into surface water or sanitary sewer system.

**Measures for cleaning/collecting:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### Section 7: Handling and Storage

**Handling:** Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep away from acids.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. No metal containers. Keep away from acids. Incompatible Materials. Acids. Strong oxidizing agents.

### Section 8: Exposure Controls/Personal Protection

**General protective and hygienic measures:** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

**Breathing equipment:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

**Eye protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

### Section 9: Physical and Chemical Properties

#### **Modification Powder:**

**Form:** Powder Solid

**Odor:** Pungent

**Odor threshold:** No data available.

**pH:** 4-6 5% aq.so

**Melting point/melting range:** 150°C / 302°F

**Boiling point/boiling range:** No data available.

**Flash point:** No data available.

**Evaporation rate:** Not applicable.

**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.

**Specific Gravity:** 1.4

**Solubility in/Miscibility with water:** Soluble in water.

**Decomposition Temperature:** 120°C

#### **Desulphonation Solution:**

**Form:** Clear, colorless solution.

**Odor:** Odorless.

**Odor threshold:** Not applicable.

**pH:** 14.0

**Melting point/melting range:** 318°C / 604°F

**Boiling point/boiling range:** 1,390°C /2,534°F at 1,013 hPa

**Flash point:** Not applicable.

**Evaporation rate:** No data available.

**Flammability:** Not flammable.  
**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:** 1.38 - (Air = 1.0)  
**Density:** 2.13 g/cm<sup>3</sup> at 20°C /68°F  
**Solubility in/Miscibility with water:** Soluble in water.  
**Decomposition Temperature:** No data available.

### Section 10: Stability and Reactivity

**Reactivity:** Yes

**Chemical stability:** Air sensitive. Moisture sensitive.

**Conditions to avoid:** Avoid dust formation. Incompatible products. Excess heat. Exposure to air or moisture over prolonged periods.

**Incompatible materials:** Acids, flammable liquids, organic halogens, metals, nitrocompounds, strong oxidizing agents.

**Hazardous decomposition products:** Sulfur oxides, Sodium oxides.

### Section 11: Toxicological Information

**Acute toxicity:** Not classified.

**Potential routes of exposure/potential health effects:**

#### **Modification Powder**

##### **Sodium metabisulfite (7681-57-4)**

**Ingestion:** LD50 = 1310 mg/kg (Rat).

**Skin corrosion/irritation:** LD50 > 2000 mg/kg (Rat)

**Eye:** Risk of serious damage to eyes.

**Inhalation:** Not listed.

**Carcinogenic effects:** This product is not listed in IARC, ACGIH, NTP, or OSHA classification.

**Mutagenic effects:** No data available.

**Reproductive toxicity:** No data available.

**Sensitization:** No data available.

**Target organs:** None known.

#### **Desulphonation Solution**

##### **Sodium hydroxide (1310-73-2)**

**Ingestion:** If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

**Skin corrosion/irritation:** Causes burns (Rabbit).

**Eye:** Causes serious eye damage (Rabbit).

**Inhalation:** Corrosive to respiratory system.

**Carcinogenic effects:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, ACGIH, NTP, or OSHA classification.

**Mutagenic effects:** No data available.  
**Reproductive toxicity:** No data available.  
**Sensitization:** No data available.  
**Target organs:** No data available.

#### Section 12: Ecological Information (non-mandatory)

**Ecotoxicity:** Do not empty into drains. Contains a substance which is harmful to aquatic organisms.  
**Mobility:** Will likely be mobile in the environment due to its water solubility.  
**Biodegradation:** No data available.  
**Bioaccumulation:** No information available.

#### Section 13: Disposal Considerations (non-mandatory)

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### 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
Modification Powder	Yes	Yes	Yes	Yes
Desulphonation Solution	Yes	Yes	Yes	Yes

**Substances are not restricted under EU REACH (Annex XVII)**

#### Section 16: Other Information

**SDS date of preparation/update:** July 11, 2023