

**SAFETY DATA SHEET**

**1. IDENTIFICATION**

**PRODUCT IDENTIFIER:**

**074535 EGC III MSA EluGen Methanesulfonic Acid Cartridge**  
**072077 EGC MSA EluGen Methanesulfonic Acid (Capillary)**  
**075779 EGC 500 MSA Methanesulfonic Acid Cartridge**  
**302767 EGC 400 MSA Methanesulfonic Acid Cartridge**

**SUPPLIER DETAILS:**

Thermo Fisher Scientific  
1228 Titan Way  
P.O. Box 3603  
Sunnyvale, California 94088-3603

Emergency Phone: 1-800-424-9300 (CHEMTREC)  
+1-703-527-3887 (INTERNATIONAL)  
Information Phone: (408) 737-0700  
Date Revised: 5/16/2018

**Recommended use of the chemical and restrictions on use:** For laboratory use.

**2. HAZARD IDENTIFICATION**

**Classification of the Substance or Mixture:**



**Corrosive to metals (Category 1), H290**

**Acute toxicity, Oral (Category 5), H303**

**Skin corrosion (Category 1B), H314**

**Serious eye damage (Category 1), H318**



**Specific target organ toxicity – single exposure, respiratory system (Category 3), H335**

**Acute aquatic toxicity (Category 3), H402**

*For the full text of H-Statements, see Section 16*

**GHS Label Elements, including Precautionary Statements:**

**Pictogram(s):**



**Signal Word:**

Danger

**Hazard Statements:**

**H290** May be corrosive to metals  
**H303** May be harmful if swallowed  
**H314** Causes severe skin burns and eye damage  
**H335** May cause respiratory irritation  
**H402** Harmful to aquatic life

**Precautionary Statements:**

**P234** Keep only in original packaging.

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- P260** Do not breathe dust/fume/gas/mist/vapours/spray.
- P264** Wash thoroughly after handling.
- P271** Use only outdoors or in a well-ventilated area.
- P273** Avoid release to the environment.
- P280** Wear protective glasses/protective clothing/eye protection/face protection.
- P301 + P330 + P331 + P312** IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a poison center/doctor if you feel unwell.
- P303 + P361 + P353 + P363** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
- 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.
- 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/container with a resistant inner liner.
- P501** Dispose of contents/container according to federal, state and local requirements.

**Other hazards which do not result in classification:** None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENTS	Water	Methanesulfonic Acid
PERCENT (%)	80.8	19.2
CAS NO.	7732-18-5	75-75-2
EINECS NO.	231-791-2	200-898-6
<b>CLASSIFICATION</b>		Met Corr. 1, H290; Skin Corr. 1B; H314; Eye Dam. 1, H318; Acute Tox 4, H302, H312; STOT SE 3, H335; Aquatic Acute 2, H401

*For the full text of H-Statements, see Section 16*

**4. FIRST-AID MEASURES**

**GENERAL:** Consult a physician. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing, wash thoroughly before reuse.

**EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids. If present, remove contact lenses and continue rinsing. Seek medical attention if necessary.

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- SKIN:** Remove contaminated clothing and flush skin with water for at least 15 minutes. See medical attention if necessary.
- INHALATION:** Move to fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms persist.
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water. **DO NOT INDUCE VOMITING!** Seek medical attention if necessary.

**Most important symptoms/effects, acute and delayed:** see Section 2 and Section 11.

**Indication of any immediate medical attention and special treatment needed, if necessary:** Data not available.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Hazards arising from the chemical:** Data not available

**Special Protective Actions For Fire-Fighters:** Wear self-contained breathing apparatus if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

- Ventilate area.
- Wear appropriate personal protective equipment (see Section 8).
- Avoid breathing vapors or mist.
- Evacuate personnel to safe areas.

**Environmental precautions:**

- Do not let product enter drains or waterways or be discharged to the environment.

**Methods and materials for containment and cleaning up:**

- Contain spill. Neutralize using sodium carbonate.
- Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
- Mop up and store in a suitable waste container.
- Wash contaminated areas with soap and water.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:**

- Ensure good ventilation.
- Avoid skin or eye contact.
- Do not ingest.
- Wear appropriate personal protection equipment when handling (see Section 8)
- Have an eye wash in the immediate area in case of emergency.

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- Use good laboratory practices when working with chemicals.
- Wash hands after use.

**Conditions for safe storage, including any incompatibilities:**

- Store at room temperature.
- Store container upright.
- Keep container tightly closed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:**

None

**Appropriate Engineering Controls:**

**LOCAL EXHAUST:** Good laboratory ventilation is acceptable.  
**MECHANICAL (GENERAL):** Use in hoods if possible  
**SPECIAL:** Data not available  
**OTHER:** Wash hands after use.

**Individual protection measures, such as personal protective equipment (PPE):**

**SKIN PROTECTION:** Chemical resistant gloves. Lab coat  
**EYE/FACE PROTECTION:** Safety glasses or goggles  
**RESPIRATORY PROTECTION:** Data not available  
**THERMAL HAZARDS:** Data not available

### 9. PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

**PHYSICAL STATE:** Liquid  
**COLOUR:** Clear  
**ODOUR:** None  
**MELTING POINT/FREEZING POINT:** Data not available  
**BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE:** Approximately 100 degrees C  
**FLAMMABILITY:** Not combustible  
**LOWER AND UPPER EXPLOSION LIMIT/FLAMMABILITY LIMIT:** Data not available  
**FLASH POINT:** Not combustible  
**AUTOIGNITION TEMPERATURE:** Data not available  
**DECOMPOSITION TEMPERATURE:** Data not available  
**pH:** Data not available  
**KINEMATIC VISCOSITY:** Data not available  
**SOLUBILITY:** Data not available

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**PARTITION COEFFICIENT N-OCTANOL/WATER (LOG VALUE):** Data not available  
**VAPOUR PRESSURE:** Data not available  
**DENSITY AND/OR RELATIVE DENSITY:** Data not available  
**RELATIVE VAPOUR DENSITY:** Data not available

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Data not available  
**CHEMICAL STABILITY:** Stable  
**POSSIBILITY OF HAZARDOUS REACTIONS:** Data not available  
**CONDITIONS TO AVOID:** Data not available  
**INCOMPATIBLE MATERIALS:** Water-reactive materials, Strong bases, Hydrogen fluoride, ethyl vinyl ether  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of sulfur

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Data not available  
**SKIN CORROSION/IRRITATION:** Data not available  
**SERIOUS EYE DAMAGE/IRRITATION:** Data not available  
**RESPIRATORY OR SKIN SENSITIZATION:** Data not available  
**GERM CELL MUTAGENICITY:** Data not available  
**CARCINOGENICITY:** Data not available  
**REPRODUCTIVE TOXICITY:** Data not available  
**STOT-SINGLE EXPOSURE:** Data not available  
**STOT-REPEATED EXPOSURE:** Data not available  
**ASPIRATION HAZARD:** No  
**LIKELY ROUTES OF EXPOSURE:** Ingestion, skin, eye  
**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:** Data not available  
**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:** Data not available  
**NUMERICAL MEASURES OF TOXICITY:** Data not available  
**INTERACTIVE EFFECTS:** Data not available

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**OTHER INFORMATION:** To the best of our knowledge, the chemical, physical and toxicological properties of this mixture have not been thoroughly investigated.

### 12. ECOLOGICAL INFORMATION

**TOXICITY:** Data not available  
**PERSISTENCE AND DEGRADABILITY:** Data not available  
**BIOACCUMULATIVE POTENTIAL:** Data not available  
**MOBILITY IN SOIL:** Data not available  
**OTHER ADVERSE EFFECTS:** Data not available

### 13. DISPOSAL CONSIDERATIONS

Dispose of contents and packaging according to local, state and federal regulations.

### 14. TRANSPORT INFORMATION

#### USDOT CLASSIFICATION:

**UN NUMBER:** UN 3265  
**UN PROPER SHIPPING NAME:** Corrosive liquid, acidic, organic, n.o.s.(methanesulfonic acid)  
**TRANSPORT HAZARD CLASS(ES):** 8  
**PACKAGING GROUP:** II

#### IATA CLASSIFICATION:

**UN NUMBER:** UN 3265  
**UN PROPER SHIPPING NAME:** Corrosive liquid, acidic, organic, n.o.s.(methanesulfonic acid)  
**TRANSPORT HAZARD CLASS(ES):** 8  
**PACKAGING GROUP:** II

#### IMO/IMDG CLASSIFICATION:

**UN NUMBER:** UN 3265  
**UN PROPER SHIPPING NAME:** Corrosive liquid, acidic, organic, n.o.s.(methanesulfonic acid)  
**TRANSPORT HAZARD CLASS(ES):** 8  
**PACKAGING GROUP:** II

**Environmental Hazards:** Not a marine pollutant.

**Special Precautions for User:** Data not available

### 15. REGULATORY INFORMATION

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**SARA 302 Components:** This product does not contain any chemical components that are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute

**Massachusetts Right to Know Components:** None

**Pennsylvania Right to Know Components:** Methanesulphonic Acid, 75-75-2; Water, 7732-18-5

**New Jersey Right to Know Components:** Methanesulphonic Acid, 75-75-2; Water, 7732-18-5

**California Prop 65:** This mixture does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm

### 16. OTHER INFORMATION

#### FULL H-STATEMENTS:

- H290** May be corrosive to metals
- H302** Harmful if swallowed
- H303** May be harmful if swallowed
- H312** Harmful in contact with skin
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H335** May cause respiratory irritation
- H401** Toxic to aquatic life
- H402** Harmful to aquatic life

#### ABBREVIATIONS:

- Acute Tox.** Acute Toxicity
- Aquatic Acute** Acute Aquatic Toxicity
- Eye Dam.** Serious Eye Damage
- Met. Corr.** Corrosive to metals
- Skin Corr.** Skin Corrosion
- STOT SE** Specific Target Organ Toxicity – Single Exposure

#### Key Literature References and Sources of Data:

29 CFR 1910.1200

#### Revision History:

Rev.06 – Classification updates

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). It complies with the requirements of US 29CFR 1910.1200. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of Merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall

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