1. **IDENTIFICATION OF SUBSTANCE/ MIXTURE AND THE COMPANY/ UNDERTAKING**

**PRODUCT:**

057559  Anion Regenerant Concentrate; Sulfuric Acid Concentrate, 75 mL, (20x)

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: 04/10/2015

For laboratory use.

2. **HAZARD(S) IDENTIFICATION**

Classification of the Substance or Mixture:

- GHS05 Corrosive
- GHS07 Irritant

**Signal Word:** Danger

**Hazard Statements:**

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.

**Potential Health Effects:**

- **Eyes:** Causes severe eye damage.
- **Skin:** Harmful in contact with skin.
- **Inhalation:** No data available.
- **Ingestion:** Harmful if swallowed.

**Precautionary Statements:** All Classifications meet the CLP/GHS requirements.

- P262 Do not get in eyes, on skin, or on clothing.
- P280 Wear protective gloves/clothing/eye and face protection.
- P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P264 Wash thoroughly after handling.
- P350 Gently wash with soap and water.
CLP/GHS CLASSIFICATION (1272/2008):

SKIN CORROSIVE: (Category 1B)

EU CLASSIFICATION (67/548/EEC):

EUH071 Corrosive to respiratory tract.
EUH210 Safety data sheets available on request.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

GHS Label Elements: Corrosive, Irritant

Danger! Contains Sulfuric Acid

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Water</th>
<th>Sulfuric Acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERCENT (%)</td>
<td>89.6</td>
<td>10.4</td>
</tr>
<tr>
<td>CAS NO.</td>
<td>7732-18-5</td>
<td>7664-93-9</td>
</tr>
<tr>
<td>EINECS NO.</td>
<td>231-791-2</td>
<td>231-639-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

GENERAL: Remove contaminated clothing, wash thoroughly before reuse.

EYES: Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.

SKIN: Remove contaminated clothing and flush with water thoroughly.

INHALATION: Move to fresh air. If symptoms persist seek medical attention immediately.

INGESTION: If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water. DO NOT INDUCE VOMITING!

5. FIRE FIGHTING MEASURES

Hazardous Combustion Products: Data not available

Extinguishing Media: Data not available

Special Protective Actions For Fire Fighters: Data not available

6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
- Wear appropriate protective clothing and eye protection.
- Contain spill.
- Neutralize, collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
- Store waste in a UN approved compatible container.
- Mop up and store in a suitable waste container.
- Wash contaminated areas with soap and water.
7. HANDLING AND STORAGE
- Ensure good ventilation.
- Have an eye wash in the immediate area in case of emergency.
- Store at room temperature
- Keep container tightly closed
- Use good laboratory practice when working with any chemical whether it is considered hazardous or not.

8. EXPOSURE CONTROL/PERSOAL PROTECTION

Routes of Entry:

| INHALATION: | Yes |
| SKIN: | Yes |
| INGESTION: | Yes |

Health Hazards:

- ACUTE: May cause burns to skin, eyes and mucous membranes.
- CHRONIC: Data not available

Ventilation:

- LOCAL EXHAUST: Good laboratory ventilation is acceptable.
- MECHANICAL (GENERAL): Use in hoods if possible
- SPECIAL: Data not available
- OTHER: Data not available

Protective Clothing Or Equipment:

- GLOVES: Disposable nitrile gloves
- EYE PROTECTION: Safety glasses or goggles
- RESPIRATORY: Data not available
- OTHER: Lab coats

9. PHYSICAL AND CHEMICAL PROPERTIES

| APPEARANCE: | Clear |
| ODOR: | None |
| pH: | 1 |
| MOLECULAR WEIGHT: | 98.06 |
| MELTING POINT: | Not Applicable |
| BOILING POINT: | Approximately 100 degrees C |
| AUTOIGNITION TEMPERATURE: | Not Applicable |
| FLASH POINT: | Nonflammable - 89.6% Water |
| LOWER EXPLOSION LIMIT: | Undetermined |
| UPPER EXPLOSION LIMIT: | Undetermined |
| SPECIFIC GRAVITY: | Approximately 1 |
10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Water-reactive materials
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Toxic oxides of sulfur
HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

Acute toxicity: May cause burns to skin, eyes or mucous membranes.
Skin corrosion/irritation: Corrosive to skin
Serious eye damage/irritation: May cause serious eye damage.
Respiratory or skin sensitization: • In case of contact, wash skin with copious amounts of water.
  • Flush eyes with copious amounts of water for at least 15 minutes.
  • If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
  • Get medical attention.

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
OSHA PEL: Data not available
NTP: Data not available
IARC Monographs: Data not available
ACGIH TLV TWA: Data not available
HAZARDOUS COMPONENTS: Water
Sulfuric Acid

RTECS #: ZC0110000 WS5600000
OSHA PEL: Not Found 1 MG/M3
ACGIH TLV: Not Found 1 MG/M3/3 STEL

TOXICITY DATA:
None UNK-MAN LDLo: 135 mg/kg
None ORL-RAT LD50: 2,140 mg/kg
TSCA Yes 1980

12. ECOLOGICAL INFORMATION
Data not available on environmental toxicity for this solution.

13. DISPOSAL CONSIDERATIONS
Dispose of according to local, state and federal regulations.

14. TRANSPORT INFORMATION

USDOT CLASSIFICATION:

UN ID NUMBER: UN 3316
PROPER SHIPPING NAME: Chemical Kit
CLASS OR DIVISION 9
HAZARD LABEL(S) Miscellaneous
PACKAGING GROUP III

IATA CLASSIFICATION:

UN ID NUMBER: UN 3316
PROPER SHIPPING NAME: Chemical Kit
CLASS OR DIVISION 9
HAZARD LABEL(S) Miscellaneous
PACKAGING GROUP III

IMO/IMDG CLASSIFICATION:

UN ID NUMBER: UN 3316
PROPER SHIPPING NAME: Chemical Kit
CLASS OR DIVISION 9
HAZARD LABEL(S) Miscellaneous
PACKAGING GROUP III

ADR CLASSIFICATION:

UN ID NUMBER: UN 3316
PROPER SHIPPING NAME: Chemical Kit
CLASS OR DIVISION 9
HAZARD LABEL(S): Miscellaneous
PACKAGING GROUP: III

Not a marine pollutant.

15. REGULATORY INFORMATION
This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

PRODUCT RISK STATEMENTS:
- R35 Causes severe burns
- R36 Irritating to the eyes
- R37 Irritating to the respiratory system
- R38 Irritating to the skin
- R49 May cause cancer by inhalation

PRODUCT SAFETY STATEMENTS:
- S23 Do not breathe gas/fumes/vapour/spray
- S30 Can become highly flammable in use
- S36 Wear suitable protective clothing
- S37 Wear suitable gloves
- S39 Wear eye/face protection
- S45 In case of accident or if you feel unwell, seek medical advice immediately

This Safety Data Sheet has been prepared in accordance with the REACH regulation in the EU and the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). It complies with the requirements of the Canadian Controlled Products Regulations and 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 Thermo Fisher Scientific 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 resulting from use of or reliance upon this information.