**SECTION 1 - SUBSTANCE IDENTIFICATION AND COMPANY INFORMATION**

**Product Name:** G418 Sulfate  
**ATCC Catalog No.:** 30-2305  

**COMPANY INFORMATION:** AMERICAN TYPE CULTURE COLLECTION  
PO BOX 1549  
MANASSAS, VA 20108  

**FOR INFORMATION CALL:** 800-638-6597 or 703-365-2700  
**AFTER-HOURS CONTACT:** 703-365-2710  

**CHEMTREC EMERGENCY:** 800-424-9300 or 703-527-3887

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>EC NUMBER (EINECS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G418</td>
<td>108321-42-2</td>
<td>UNLISTED</td>
</tr>
</tbody>
</table>

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:**  
HARMFUL BY INHALATION AND IF SWALLOWED.  
AVOID CONTACT WITH SKIN AND EYES.  
DO NOT BREATHE DUST.

WHEN USING, DO NOT EAT, DRINK, OR SMOKE.  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.  
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).

**TARGET ORGAN:**  
KIDNEYS.  
EARS.  
EYES.

**SECTION 4 - FIRST AID MEASURES**

EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.  
SKIN: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER.  
INGESTION: WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.  
INHALATION: REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

**SECTION 5 - FIRE FIGHTING MEASURES**
**EXTINGUISHING MEDIA:**
WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

**SPECIAL FIREFIGHTING PROCEDURES:**
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

**UNUSUAL FIRE AND EXPLOSIONS HAZARDS:**
EMITS TOXIC FUMES UNDER FIRE CONDITIONS. SUBSTANCE IS NONCOMBUSTIBLE.

<table>
<thead>
<tr>
<th>SECTION 6 - ACCIDENTAL RELEASE MEASURES</th>
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<tbody>
<tr>
<td>WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND RUBBER GLOVES. WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE. SWEEP UP CAREFULLY TO AVOID CREATING AIRBORNE DUST. PLACE IN A SUITABLE CONTAINER, SEAL, LABEL, AND HOLD FOR WASTE DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. EVACUATE.</td>
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<thead>
<tr>
<th>SECTION 7 - HANDLING AND STORAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STORE AT REFRIGERATED TEMPERATURES (4 to 8° C). KEEP CONTAINER TIGHTLY CLOSED.</td>
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</table>

<table>
<thead>
<tr>
<th>SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHANICAL EXHAUST REQUIRED. WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, AND OTHER PROTECTIVE CLOTHING. EMERGENCY SHOWER AND EYE WASH STATION SHOULD BE READILY AVAILABLE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE.</td>
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</table>

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<thead>
<tr>
<th>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPEARANCE AND ODOR:</strong></td>
</tr>
<tr>
<td>WHITE TO OFF-WHITE ODORLESS POWDER.</td>
</tr>
</tbody>
</table>

| PHYSICAL PROPERTIES: |
| DATA NOT AVAILABLE. |

<table>
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<tr>
<th>SECTION 10 - STABILITY AND REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STABILITY:</strong></td>
</tr>
<tr>
<td>STABLE.</td>
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</tbody>
</table>

| INCOMPATIBILITIES: |
| STRONG OXIDIZING AGENTS. |
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, SULFUR OXIDES.

HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:
MAY CAUSE SKIN IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
MAY CAUSE EYE IRRITATION.
MAY BE HARMFUL IF INHALED.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
MAY BE HARMFUL IF SWALLOWED.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12 - ECOLOGICAL INFORMATION

DATA NOT AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS

CONTACT A LICENSED WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.
OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

DATA NOT AVAILABLE.

SCHEDULE B NUMBER: 2941.90.6000

SECTION 15 - REGULATORY INFORMATION

EUROPEAN INFORMATION:
RISK PHRASES 20/22
HARMFUL. BY INHALATION AND IF SWALLOWED.
SAFETY PHRASES 20/21, 22, 24/25, 26, 36/37, 45
WHEN USING, DO NOT EAT, DRINK, OR SMOKE.
DO NOT BREATHE DUST.
AVOID CONTACT WITH SKIN AND EYES.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).

SECTION 16 - OTHER INFORMATION
THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE CORRECT BASED UPON DATA AVAILABLE TO ATCC. USERS SHOULD MAKE AN INDEPENDENT DECISION REGARDING THE ACCURACY OF THIS INFORMATION BASED ON THEIR NEEDS AND DATA AVAILABLE TO THEM. ALL SUBSTANCES AND MIXTURES MAY PRESENT UNKNOWN HAZARDS AND ALL NECESSARY SAFETY PRECAUTIONS SHOULD BE TAKEN. ATCC ASSUMES NO LIABILITY RESULTING FROM USING OR COMING IN CONTACT WITH THIS SUBSTANCE.

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