Safety Data Sheet

Section 1: Chemical Product and Company Identification

Cat#: 26406
Part Name: MAXgene Transfection Reagent
Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
Company phone number 215-343-6484, 24-hour emergency phone number ChemTel 1-800-255-3924 Contract # MIS1592086

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview

Low hazard for usual industrial or commercial handling.

GHS Classification

Non-Hazardous

Signal word: non-hazard

Hazard and Precautionary Statements

H000  Low hazard for normal industrial use
P302+P352  IF ON SKIN: Wash with plenty of soap and water.
P305B  IF IN EYES, Separate eyelids with finger tips.
P313  Get medical advice/attention.
P351  Rinse cautiously with water for several minutes.

NFPA Rating

Hazard Ratings:
These ratings are Polysciences' Inc. own assesments of the properties of the material using the ANSI/NFPA 704 Standard.
Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health  Flammability  Reactivity
1  0  0

Section 3: Composition/ Information on Ingredients

<table>
<thead>
<tr>
<th>Item#</th>
<th>Name</th>
<th>EINECS</th>
<th>CAS#</th>
<th>% in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Polyethyleneimine Hydrochloride</td>
<td>unknown</td>
<td>49553-93-7</td>
<td>0-1</td>
</tr>
<tr>
<td>2</td>
<td>Water</td>
<td>231-791-2</td>
<td>0007732-18-5</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

Note: Items listed with a CASRN... number have no CAS# available.

Section 4: First Aid Measures

Contact medical personnel.
Flush eyes with flowing water for at least 15 minutes.
Separate eyelids with finger tips.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: 504  Method: OC
UEL: no data  LEL: no data  Autoignition temperature, deg. F.: no data
Flammability Classification: no data  Flame Propagation Rate: no data
Hazardous Combustion Products: nitrogen compounds

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

Section 7: Handling and Storage

Store between 2 - 8 degree C

Section 8: Exposure Controls/ Personal Protection
OSHA (ACGIH) Exposure Limits

<table>
<thead>
<tr>
<th>Water</th>
<th>TWA</th>
<th>STEL</th>
<th>CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/</td>
<td>ppm</td>
</tr>
<tr>
<td></td>
<td>mg/m3</td>
<td>mg/m3</td>
<td>ppm</td>
</tr>
<tr>
<td></td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>OSHA</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>ACGIH</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

No special protection is indicated.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

**Section 9: Physical and Chemical Properties**

- **Formula:** H2N-(C2H5N)n-H
- **Formula Weight:** no data
- **boiling point:** no data
- **melting point:** no data
- **solubility:** soluble
- **vapor pressure:** no data
- **vapor density:** no data
- **Specific gravity:** 1.001
- **ph:** 6-7
- **appearance:** white to yellow powder

**Section 10: Stability and Reactivity**

- **Chemical Stability:** stable
- **Conditions to Avoid:** none
- **Incompatibility with other materials:** no data
- **Hazardous Decomposition Products:** no data
- **Hazardous Polymerization:** will not occur

**Section 11: Toxicological Information**

- **Acute Data:** LD50 oral mouse 1.0 ml/Kg; LD50 dermal rat >2000 mg/Kg
- **Subchronic data:** no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

<table>
<thead>
<tr>
<th>Waste Code</th>
<th>Regulated Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>not listed</td>
</tr>
</tbody>
</table>

**Section 14: Transportation Data**

- **Proper Shipping Name:** NOT REGULATED
- **Chemical Name:**
- **UN:**
- **Class:**
- **PG:**

**Section 15: Regulatory Information**

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>no</td>
</tr>
</tbody>
</table>

State Regulatory information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

| Water | not listed |
SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III)
This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

<table>
<thead>
<tr>
<th>Regulated name</th>
<th>de minimis conc. %</th>
<th>Rep. Thres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

SARA Extremely Hazardous Substances and TPQs
This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

<table>
<thead>
<tr>
<th>Regulated name</th>
<th>TPQ (pounds)</th>
<th>EHS-RQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

CERCLA
The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

<table>
<thead>
<tr>
<th>Regulated name</th>
<th>RQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Section 16: Other Information
POLYSCIENCES, INC. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. POLYSCIENCES, INC. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, POLYSCIENCES, INC. will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS