**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### 1.1. Product identifier

- **Product name**: CELLCEPT(R) Capsules (250 mg)
- **Product code**: SAP-10093418

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

- Use: pharmaceutical active substance (immunosuppressant)

### 1.3. Details of the supplier of the safety data sheet

- **Company information**
  - Genentech, Inc.
  - 1 DNA Way
  - South San Francisco
  - USA-CA 94080
  - United States of America
  - Phone: 001-(650) 225-1000
  - E-Mail: info.sds@roche.com
  - US Chemtrec phone: (800)-424-9300

- **Local representation**

### 1.4. Emergency telephone number

- **Emergency telephone number**: US Chemtrec phone: (800)-424-9300

*1 referring to: Mycophenolate mofetil
SECTION 2: Hazards identification

Classification of the substance or mixture / Label elements

GHS Classification                                      Health Hazards:
                                                        3.1 Acute toxicity (Category 4)  
                                                        H302 Harmful if swallowed.  
                                                        3.5 Germ cell mutagenicity (Category 2)  
                                                        H341 Suspected of causing genetic defects.  
                                                        3.7 Reproductive toxicity (Category 1B)  
                                                        H360D May damage the unborn child.  
                                                        3.9 Specific target organ toxicity - Repeated exposure (Category 1)  
                                                        H372 Causes damage to organs through prolonged or repeated exposure.

Signal word: Danger

Label:

Precautionary statements:
- P201 Obtain special instructions before use.
- P260 Do not breathe dust
- P273 Avoid release to the environment.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.

Other hazards

Note - no information available

SECTION 3: Composition/information on ingredients

Characterization  Mycophenolate mofetil and other inactive ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Concentration</th>
<th>GHS-Classification (pure ingredient)</th>
</tr>
</thead>
</table>
| Mycophenolate mofetil 128794-94-5 | ~ 83 %        | - Combustible dust (No category), USH003  
|                                 |               | - Acute toxicity (Category 4), H302  
|                                 |               | - Germ cell mutagenicity (Category 2), H341  
|                                 |               | - Reproductive toxicity (Category 1B), H360D  
|                                 |               | - Specific target organ toxicity - Repeated exposure (Category 1), H372  
| Starch 9005-84-9                | ~ 10 %        |                                       |
**CELLCEPT(R) Capsules (250 mg)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium stearate</td>
<td>~ 2 %</td>
</tr>
<tr>
<td>557-04-0</td>
<td></td>
</tr>
<tr>
<td>Povidone K 90</td>
<td>~ 2 %</td>
</tr>
<tr>
<td>9003-39-8</td>
<td></td>
</tr>
</tbody>
</table>

*For the full text of the H--phrases mentioned in this Section, see Section 16.*

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- **Eye contact**
  - Rinse immediately with tap water for 10 minutes - open eyelids forcibly
- **Skin contact**
  - Drench affected skin with water
- **Inhalation**
  - Remove the casualty to fresh air
  - In the event of symptoms get medical treatment
- **Ingestion**
  - Consult physician

#### 4.2. Most important symptoms and effects, both acute and delayed

- **Note**
  - No information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

- **Note to physician**
  - Treat symptomatically

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- **Suitable extinguishing media**
  - Adapt extinguishing media to surrounding fire conditions
- **Flash point (liquid)**
  - Not applicable

#### 5.2. Special hazards arising from the substance or mixture

- **Specific hazards**
  - Toxic emissions may be given off in a fire

#### 5.3. Advice for firefighters

- **Protection of fire-fighters**
  - Precipitate gases/vapours/mists with water spray

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- **Personal precautions**
  - Ensure adequate ventilation
6.2. Environmental precautions

Environmental protection  - do not allow to enter drains or waterways
  - if the substance reaches waters or the sewer system, inform the competent authority
  - the solvent should be held back due to environmental protection

6.3. Methods and material for containment and cleaning up

Methods for cleaning up  - collect spilled material (avoid dust formation) and hand over to waste removal in sealed containers

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Technical measures  - no special measures necessary if stored and handled as prescribed

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions  - keep containers tightly closed
  - room temperature
  - store in a dry place
  - protected from light

Packaging materials  - drums
  - lined with polyethylene bag

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Threshold value (USA) air  - ACGIH-TLV: 10 mg/m³
  - ACGIH-TLV: 10 mg/m³ (not classifiable as a human carcinogen)
  - OSHA-PEL: 5 mg/m³ (respirable fraction)
  - OSHA-PEL: 15 mg/m³ (total dust)
  - NIOSH-REL: 5 mg/m³ (respirable fraction)
  - NIOSH-REL: 15 mg/m³ (total dust)

Threshold value (Roche) air  - IOEL (Internal Occupational Exposure Limit): 0.01 mg/m³

8.2. Exposure controls

Respiratory protection  - Respiratory protection is recommended as a precaution to minimize exposure. Effective engineering controls are considered to be the primary means to control worker exposure. Respiratory protection should not substitute for feasible engineering controls.
  - respiratory protection not necessary during normal operations

Hand protection  - protective gloves (eg made of neoprene, nitrile or butyl rubber)
Eye protection - safety glasses

Analytics - sampling on glass fibre filter, desorption with methanol; basify with NaOH, heat; neutralize with HCl, HPLC analysis *1

*1 referring to: Mycophenolate mofetil
*2 referring to: Magnesium stearate
*3 referring to: Starch

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Color brown
blue

Form oblong capsules

Solubility ≤ 22 mg/l, water (~ 22 °C, pH 6.3, HPLC, 24 h) *1
≤ 36 mg/l, aquatic ecotoxicity media (~ 22 °C, HPLC, 24 h) *1

Partition coefficient log P_{ow} 1.45 (n-octanol/water) pH 7.4 *1

9.2. Other information

Note - no information available

*1 referring to: Mycophenolate mofetil

SECTION 10: Stability and reactivity

10.1. Reactivity

Note - no information available

10.2. Chemical stability

Stability - stable under the conditions mentioned in chapter 7

10.3. Possibility of hazardous reactions

Note - no information available

10.4. Conditions to avoid

Conditions to avoid - warming
- light
- humidity
10.5. Incompatible materials

Materials to avoid - strong oxidizing agents

10.6. Hazardous decomposition products

Note - no information available

*1 referring to: Mycophenolate mofetil

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
- LD₅₀ 353 mg/kg (oral, rat); females, "trimmed Spearman-Karber method" *1
- LD₅₀ 500 mg/kg (oral, rat); males, "trimmed Spearman-Karber method" *1
- LD₀ 250 mg/kg (oral, rat) *1
- LD₅₀ > 2'000 mg/kg (oral, rat) *2

Local effects
- skin: non-irritant *1
- eye: non-irritant *1

Sensitization
- non-sensitizing *1

Mutagenicity
- mutagenic (OECD No. 474 (Micronucleus Test)); threshold dose response *4
- mutagenic (mouse lymphoma cell mutation test; OECD No. 476 (Mammalian Cell Gene Mutation Test)) *4
- does not induce chromosomal aberrations in vitro (OECD No. 473 (Mammalian Cytogenic Test)) *4
- not mutagenic (Ames test) *4

Carcinogenicity
- not carcinogenic (several species) *1

Reproductive toxicity
- teratogenic (several species) *1

Note
- immunosuppressive agent *1
- average therapeutic dose 1 g twice daily *1
- elimination half-life: 16-18 h *1
- excretion predominantly renal *1
- adverse effects at therapeutic dose: diarrhea, drop in white blood cell count, susceptibility to infections, vomiting *1
- high doses may irritate the digestive tract *1

Potential Health Effects
- Exposure: Inhalation, Ingestion, Skin contact, Eye contact
- Carcinogenicity: not listed by NTP, IARC or OSHA

*1 referring to: Mycophenolate mofetil
*2 referring to: Magnesium stearate
*4 referring to: Mycophenolic acid
**SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity**
- adaptation/recovery of organisms upon prolongation of test duration (Scenedesmus (=Desmodesmus) subspicatus)
  - LOEC (14 d) 1.6 mg/l (nominal concentration) (OECD No. 201, prolonged)
- barely toxic for planktonic crustaceans (nominal concentration = 100 mg/l), test performed with water accommodated fractions (Daphnia magna)
  - EC_{50} (48 h) > 100 mg/l (nominal concentration)
  - NOEC (48 h) 27.7 mg/l (average measured concentration) (OECD No. 202)
- highly toxic for algae (Scenedesmus (=Desmodesmus) subspicatus)
  - ErC_{50} (72 h) 0.6 mg/l (average measured concentration)
  - EbC_{50} (72 h) 0.2 mg/l (average measured concentration)
  - NOEC (72 h) 0.1 mg/l (nominal concentration) (OECD No. 201)
- acute fish toxicity in a limit test is lower than daphnid or algal toxicity, hence not relevant for classification (guppy)
  - NOEC (96 h) 1.7 mg/l (highest tested concentration) (OECD No. 203)
- no adverse influence on substrate biodegradation (activated sludge)
  - concentration (14 d) 100 mg/l (nominal concentration) (Manometric Respirometry Test, OECD No. 301 F)

### 12.2. Persistence and degradability

**Ready biodegradability**
- not readily biodegradable
  - ~ 14 %, 64 d (FDA Technical Assistance Document No. 3.11)
- not readily biodegradable primary degradation evidenced by HPLC
  - < 6 %, 28 d (Manometric Respirometry Test, OECD No. 301 F)

**Inherent biodegradability**
- evidence for medium-term biodegradation in surface waters (analogous to OECD 308, Transformation in natural water/sediment systems)

**Abiotic degradation**
- rapid degradation, photodegradation, hydrolysis 22.3 mg/l, water; HPLC
  - ~ 37 %, 120 h, ~ 22 °C, dark
  - ~ 67 %, 120 h, ~ 22 °C, under illumination

### 12.3. Bioaccumulative potential

**Note**
- no information available

### 12.4. Mobility in soil

**Note**
- no information available
12.5. Results of PBT and vPvB assessment

Note - no information available

12.6. Other adverse effects

Air pollution - observe local/national regulations

*1 referring to: Mycophenolate mofetil

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues - incinerate in qualified installation with flue gas scrubbing
- observe local/national regulations regarding waste disposal
- DO NOT FLUSH unused medications or POUR them down a sink or drain. If available in your area, use takeback programs run by household hazardous waste collection programs or community pharmacies to dispose of unused and expired medicines. If you don’t have access to a takeback program, dispose of these medicines in the household trash by removing them from their original containers and mixing them with an undesirable substance, such as used coffee grounds or kitty litter.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>IATA</th>
<th>Class</th>
<th>UN/ID</th>
<th>PG</th>
<th>PI</th>
<th>Label</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>3077</td>
<td>III</td>
<td>956/956</td>
<td>9</td>
<td>EHS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
<th>Class</th>
<th>UN</th>
<th>PG</th>
<th>EmS</th>
<th>PI</th>
<th>Label</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
<td>3077</td>
<td>III</td>
<td>F-A S-F</td>
<td>P002/IBC08</td>
<td>9</td>
<td>marine pollutant</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RID/ADR</th>
<th>Class</th>
<th>UN</th>
<th>PG</th>
<th>Haz.no</th>
<th>PI</th>
<th>Label</th>
<th>Mark</th>
<th>Classif. code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>3077</td>
<td>III</td>
<td>90</td>
<td></td>
<td>P002/IBC08</td>
<td>9</td>
<td>EHS</td>
<td>M7</td>
</tr>
</tbody>
</table>
**DOT** Class UN/ID PG PI RQ Label Haz.no
---
9 3077 III 9

**DOT Remark:**
- NON-REGULATED IN NON-BULK PACKAGINGS TRANSPORTED BY MOTOR VEHICLES, RAIL CARS OR AIRCRAFT (49CFR 171.4(c)).

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Technical name:** Mycophenolate mofetil

---

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**TSCA Status**
- FDA Exemption - not on inventory

**Reporting Requirements**
- The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material.
- In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEPE Hotline (1-609-292-5560) and to local officials.
- State and local regulations vary and may impose additional reporting requirements.

---

**SECTION 16: Other information**

**Safety-lab number**
- BS-8818
- BS-9333

**Full text of H-Statements referred to under section 3**
- **H302** Harmful if swallowed.
- **H341** Suspected of causing genetic defects.
- **H360D** May damage the unborn child.
- **H372** Causes damage to organs through prolonged or repeated exposure.
- **USH003** May form combustible dust concentrations in the air

**Note**
- Please note this Safety Data Sheet for the bulk product does not apply for the finished, packaged medicinal product intended for the final user.

**Edition documentation**
- changes from previous version in sections 2, 3, 16

**1** referring to:
- Mycophenolate mofetil

---

The information in this safety data sheet is based on current scientific knowledge. It should not be taken as expressing or implying any warranty concerning product characteristics.