1 Identification

- Product identifier
- Trade name: Mycophenolate Mofetil
  - Article number: 13988
  - CAS Number: 128794-94-5
  - EC number: 627-027-6
- Application of the substance / the mixture
  This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cayman Chemical Co.
  1180 E. Ellsworth Rd.
  Ann Arbor, MI 48108
  USA
- Information department: Product safety department
- Emergency telephone number:
  During normal opening times: +1 (734) 971-3335
  US/CANADA: 800-424-9300
  Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

- Classification of the substance or mixture
  
  ![GHS08 Health hazard](http://example.com/health_hazard_icon.png)

  Rep. 1B H360 May damage fertility or the unborn child.
  STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

  ![GHS09 Environment](http://example.com/environment_icon.png)

  Aquatic Acute 1 H400 Very toxic to aquatic life.
  Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

![GHS07](http://example.com/warning_icon.png)
Trade name: Mycophenolate Mofetil

Acute Tox. 4 H302 Harmful if swallowed.

· Label elements
· GHS label elements
   The substance is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms

   GHS07  GHS08  GHS09

· Signal word Danger
· Hazard statements
   H302 Harmful if swallowed.
   H360 May damage fertility or the unborn child.
   H372 Causes damage to organs through prolonged or repeated exposure.
   H400 Very toxic to aquatic life.
   H410 Very toxic to aquatic life with long lasting effects.
· Precautionary statements
   P201 Obtain special instructions before use.
   P202 Do not handle until all safety precautions have been read and understood.
   P260 Do not breathe dust/fume/gas/mist/vapors/spray.
   P264 Wash thoroughly after handling.
   P270 Do not eat, drink or smoke when using this product.
   P273 Avoid release to the environment.
   P280 Wear protective gloves/protective clothing/eye protection/face protection.
   P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
   P330 Rinse mouth.
   P308+P313 If exposed or concerned: Get medical advice/attention.
   P314 Get medical advice/attention if you feel unwell.
   P391 Collect spillage.
   P405 Store locked up.
   P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)

   Health = 2
   Fire = 0
   Reactivity = 0

· HMIS-ratings (scale 0 - 4)

   HEALTH  P  Health = "2
   FIRE    0  Fire = 0
   REACTIVITY  0  Reactivity = 0

· Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

(Contd. from page 1)
3 Composition/information on ingredients

· Chemical characterization: Substances
  · CAS No. Description
    128794-94-5 Mycophenolate Mofetil
  · Identification number(s)
    · EC number: 627-027-6

4 First-aid measures

· Description of first aid measures
  · General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Generally the product does not irritate the skin.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: Immediately call a doctor.
  · Information for doctor:
    · Most important symptoms and effects, both acute and delayed
      May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
      No further relevant information available.
    · Indication of any immediate medical attention and special treatment needed
      No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents:
    Use fire fighting measures that suit the environment.
    A solid water stream may be inefficient.
  · Special hazards arising from the substance or mixture
    No further relevant information available.
  · Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  · Not required.

· Environmental precautions:
  · Inform respective authorities in case of seepage into water course or sewage system.
  · Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:
  · Dispose contaminated material as waste according to item 13.

· Reference to other sections
  · See Section 7 for information on safe handling.
  · See Section 8 for information on personal protection equipment.
  · See Section 13 for disposal information.

· Protective Action Criteria for Chemicals
  · PAC-1: Substance is not listed.
  · PAC-2: Substance is not listed.
Trade name: Mycophenolate Mofetil

· PAC-3: Substance is not listed.

7 Handling and storage

· Handling:
  · Precautions for safe handling
    No special precautions are necessary if used correctly.
    Avoid breathing dust/fume/gas/mist/vapours/spray.
    Avoid prolonged or repeated exposure.
    Keep away from sources of ignition.
    Take precautionary measures against static discharge.
  · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities
  · Storage: Store in accordance with information listed on the product insert.
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters
  · Components with limit values that require monitoring at the workplace: Not required.
  · Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures:
      Keep away from foodstuffs, beverages and feed.
      Wash hands before breaks and at the end of work.
      Store protective clothing separately.
    · Breathing equipment:
      In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  · Protection of hands:

  Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Solid
      - Color: Not determined.
      - Odor: Characteristic
    - Structural Formula: C23H31NO7
    - Molecular Weight: 433.5 g/mol
    - Odor threshold: Not determined.
  - pH-value: Not applicable.
  - Change in condition
    - Melting point/Melting range: 93–94 °C (199.4–201.2 °F)
    - Boiling point/Boiling range: Undetermined.
  - Flash point: Not applicable.
  - Flammability (solid, gaseous): Product is not flammable.
  - Decomposition temperature: Not determined.
  - Auto igniting: Not determined.
  - Danger of explosion: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapor pressure: Not applicable.
  - Density: Not determined.
  - Relative density: Not determined.
  - Vapor density: Not applicable.
  - Evaporation rate: Not applicable.
  - Solubility in / Miscibility with
    - Water: Not determined.
  - Partition coefficient (n-octanol/water): Not determined.
  - Viscosity:
    - Dynamic: Not applicable.
    - Kinematic: Not applicable.
    - SOLUBILITY
      - DMF: 14 mg/ml; DMF:PBS(pH 7.2)(1:1): 0.5 mg/ml; DMSO: 10 mg/ml; Ethanol: 1.4 mg/ml
10 Stability and reactivity

· Reactivity No further relevant information available.
· Chemical stability
  · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  · Possibility of hazardous reactions No dangerous reactions known.
· Conditions to avoid No further relevant information available.
· Incompatible materials: strong oxidizing agents
· Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides

11 Toxicological information

· RTECS Number MP7746700
· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values that are relevant for classification:
      - Oral TDLO 200 mg/kg (wmn)
      - Subcutaneous TDLO 700 mg/kg/2W intermittent (rat)
· Primary irritant effect:
  · on the skin: No irritant effect.
  · on the eye: No irritating effect.
· Sensitization: No sensitizing effects known.
· Additional toxicological information:
  · Carcinogenic categories
    - IARC (International Agency for Research on Cancer) Substance is not listed.
    - NTP (National Toxicology Program) Substance is not listed.
    - OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability No further relevant information available.
· Behavior in environmental systems:
· Bioaccumulative potential No further relevant information available.
· Mobility in soil No further relevant information available.
· Ecotoxicological effects:
  · Remark: Very toxic for fish
· Additional ecological information:
· General notes:
  Water hazard class 3 (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely small quantities leak into the ground.
  Also poisonous for fish and plankton in water bodies.
  Very toxic for aquatic organisms
Trade name: Mycophenolate Mofetil

13 Disposal considerations

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

14 Transport information

- **UN-Number**
  - DOT, IMDG, IATA: UN3077
- **UN proper shipping name**
  - DOT, IATA: Environmentally hazardous substance, solid, n.o.s. (Mycophenolate Mofetil)
  - IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mycophenolate Mofetil)
- **Transport hazard class(es)**
  - DOT, IMDG: Class 9 Miscellaneous dangerous substances and articles
    - Label: 9
- **IATA**
  - Class: 9 Miscellaneous dangerous substances and articles
    - Label: 9
- **Packing group**
  - DOT, IMDG, IATA: III
- **Environmental hazards:**
  - **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user**
  - **Warning:** Miscellaneous dangerous substances and articles
- **Hazard identification number (Kemler code):** 90
- **EMS Number:** F-A,S-F
# Safety Data Sheet

**Trade name:** Mycophenolate Mofetil

<table>
<thead>
<tr>
<th>Stowage Category</th>
<th>Category A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stowage Code</td>
<td>SW23</td>
</tr>
</tbody>
</table>

*SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.*

*Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*

Not applicable.

## Transport/Additional information:

### DOT

**Quantity limitations**
- On passenger aircraft/rail: 400 kg
- On cargo aircraft only: 400 kg

### IMDG

**Limited quantities (LQ)**
- 5 kg

**Excepted quantities (EQ)**
- Code: E1
  - Maximum net quantity per inner packaging: 30 g
  - Maximum net quantity per outer packaging: 1000 g

### IATA

**Remarks:**

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

### UN "Model Regulation":

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MYCOPHENOLATE MOFETIL), 9, III

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  
  No further relevant information available.

  - Sara
    - Section 355 (extremely hazardous substances): Substance is not listed.
    - Section 313 (Specific toxic chemical listings): Substance is not listed.

  - TSCA (Toxic Substances Control Act): Substance is not listed.

  - Hazardous Air Pollutants: Substance is not listed.

  - Proposition 65

  - Chemicals known to cause cancer: Substance is not listed.

  - Chemicals known to cause reproductive toxicity for females: Substance is not listed.

  - Chemicals known to cause reproductive toxicity for males: Substance is not listed.

  - Chemicals known to cause developmental toxicity: Substance is not listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)** Substance is not listed.

- **TLV (Threshold Limit Value)** Substance is not listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes...

(Contd. on page 9)
contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user’s responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- **Department issuing SDS**: Environment protection department.
- **Contact**: -
- **Date of preparation / last revision**: 05/10/2022 / -
- **Abbreviations and acronyms**:
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Acute Tox. 4: Acute toxicity – Category 4
  - Repr. 1B: Reproductive toxicity – Category 1B
  - STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

- *Data compared to the previous version altered.*