SAFETY DATA SHEET



1. Identification

Product identifier	Mycophenolate Sodium		
Other means of identification			
Catalog number	1448989		
CAS number	37415-62-6		
Chemical name	Mycophenolic acid, sodium sa	alt	
Recommended use	For analytical laboratory use	only.	
Recommended restrictions	Not for use as a drug. Not for	administration to	humans or animals.
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States		
Telephone		301-816-8129	
Website E-mail	www.usp.org		
Emergency phone number	RSTECH@usp.org CHEMTREC within US & Canada	1-800-424-9300	
	CHEMTREC outside US & Canada	+1 703-527-3887	7
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Serious eye damage/eye irrita	ation	Category 2B
	Germ cell mutagenicity		Category 2
	Carcinogenicity		Category 1
	Reproductive toxicity		Category 1
	Specific target organ toxicity, exposure	repeated	Category 1 (bone marrow)
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Harmful if swallowed. Causes eye irritation. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs (bone marrow) through prolonged or repeated exposure.		
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.		

Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	This product is supplied in a small quantity which does not constitute a combustible dust hazard. The physical properties of this material indicate that in large quantities accumulated dust may be hazardous.
Supplemental information	Pharmacologically active material.

3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
Mycophenolate Sodium		37415-62-6	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Rinse skin with water/shower. Get medical at	tention if irritation develops and	persists.
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	
Ingestion	Rinse mouth. Do not induce vomiting without mouth-to-mouth method if substance is inges stomach content doesn't get into the lungs. G artificial respiration with the aid of a pocket m respiratory medical device.	ted. If vomiting occurs, keep he et medical advice/attention if yo	ad low so that u feel unwell. Induce
Most important symptoms/effects, acute and delayed	Bone marrow suppression. Pharmacologically physiological effects.	y active material. Occupational e	exposure may cause
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre remove this material. Activated charcoal or bi the systemic exposure by interfering with enter	le sequestrates, such as choles	
General information	Remove from exposure. Remove contaminate an occupational health physician or other lice chemical exposures. In the United States, the 1-800-222-1222. If person is not breathing, gi oxygen if available. Persons developing serior receive immediate medical attention.	nsed health-care provider famili e national poison control center ive artificial respiration. If breath	ar with workplace bhone number is ing is difficult, give
5. Fire-fighting measures			
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire- materials.	extinguishing media appropriate	for surrounding
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine in the presence of an ignition source is a pote explosion hazards noted.		
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.		
Fire fighting equipment/instructions	As with all fires, evacuate personnel to a safe breathing equipment and protective clothing.	e area. Firefighters should use s	elf-contained
Specific methods	Use standard firefighting procedures and con	sider the hazards of other involv	ed materials.
General fire hazards	No unusual fire or explosion hazards noted.		

6. Accidental release measures

Personal precautions, Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in protective equipment and sufficient concentration. Wear appropriate personal protective equipment. Avoid inhalation of dust emergency procedures from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Avoid inhalation of vapors/spray and contact with skin and eyes.

Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	As a general rule, when handling USP materials, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.	
Conditions for safe storage, including any incompatibilities	Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.	
8. Exposure controls/personal protection		

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
Other	Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.
Respiratory protection	Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Handling practices in this SDS are recommendations for laboratory use of USP materials.

9. Physical and chemical properties

Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Powder.
Color	Not available.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	363.2 - 365 °F (184 - 185 °C) (decomposing)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.

Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	> 1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible.
Auto-ignition temperature	1004 °F (540 °C) BAM (fluidized dust)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Dust explosion properties	
Minimum ignition energy (MIE) - dust cloud	100 - 300 mJ
Molecular formula	C17H19O6Na
Molecular weight	342.32
Specific gravity	544 - 552
10 Stability and reactivity	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NaOx.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.
Eye contact	Causes eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Gastrointestinal disturbances. Skin rash. Abdominal pain. Swelling. Fever. Chills. Infection. Back pain. Fast heartbeat. Pounding heartbeat. Irregular heartbeat. Tiredness. Joint pain. Headache. Insomnia. Confusion. Tremor. Bleeding or bruising.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.		
Product	Species	Test Results	
Mycophenolate Sodium (CAS 3	37415-62-6)		
Acute			
Oral			
LD50	Mouse	2500 mg/kg	
	Rat	500 mg/kg	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Causes eye irritation.		

Local effects	
Eye, Draize test	
Result: Mildly irritant. Species: Rabbit	
Skin	
Result: Non-irritant. Species: Rabbit	
Respiratory or skin sensitization	l de la construcción de la constru
Respiratory sensitization	Knowledge about health hazard is incomplete.
Skin sensitization	Knowledge about health hazard is incomplete.
Germ cell mutagenicity	Suspected of causing genetic defects.
Mutagenicity Ames test (S. typhim Result: Negative.	urium)
Result: Negative.	ation assay (human lymphocytes)
Result: Positive.	test (oral, mouse bone marrow)
Result: Positive.	79 Chinese hamster cells) ymidine kinase assay
Result: Positive.	
Carcinogenicity	May cause cancer. Increased risk of developing lymphoma and other malignancies, particularly of the skin, due to immunosuppression.
IARC Monographs. Overall I	Evaluation of Carcinogenicity
Not listed.	
	d Substances (29 CFR 1910.1001-1053)
Not listed.	ogram (NTP) Report on Carcinogens
Not listed.	grain (ATP) Report on Carcinogens
Reproductive toxicity	May damage fertility or the unborn child. Therapeutic use of this material during pregnancy has been associated with fetal death. Therapeutic use of this material during pregnancy is associated with an increased risk of birth defects.
Reproductivity	
1 mg/kg Developmer	ntal study
Result: Malformation exencephaly, and un Species: Rat	s in offspring including anophthalmia, nbilical hernia.
80 mg/kg/day Develo	
Result: Fetal resorpti absence of maternal Species: Rabbit	ons and malformations occured in toxicity.
Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.
Specific target organ toxicity - repeated exposure	Causes damage to organs (bone marrow) through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmacologically active material. Occupational exposure may cause physiological effects.
12. Ecological information	I.
Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Persistence and degradability	Not readily degradable.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

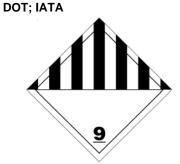
13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

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DOT	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Mycophenolate Sodium)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Packaging exceptions	155
Packaging non bulk	213
Packaging bulk	240
ΙΑΤΑ	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Mycophenolate Sodium)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and the IBC Code	



General information

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency relea	ase notification	
Not regulated.	ed Substances (29 CFR 1910.1001-1053)	
Not listed.	eu Substances (29 CFR 1910.1001-1055)	
	eauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazar		
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Acute toxicity (any route of exposure) Serious eye damage or eye irritation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure)	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
Clean Air Act (CAA) Section	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
California Proposition 65		
is not known to contain a	Water and Toxic Enforcement Act of 1986 (Proposition 65): This material any chemicals currently listed as carcinogens or reproductive toxins. For vww.P65Warnings.ca.gov.	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	11-01-2013
Revision date	01-19-2021
Version #	03
Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

USP materials are sold for analytical laboratory use only, and NOT for human consumption. The information contained herein is applicable solely to the chemical substance when used for analytical laboratory use and does not necessarily relate to any other use of the substance described, (i.e. at different concentrations, in drug dosage forms, or in bulk quantities). USP materials are intended for use by persons having technical skill and at their own discretion and risk. This information has been developed by USP staff from sources considered reliable but has not been independently verified by the USP. Therefore, the USP Convention cannot guarantee the accuracy of the information in these sources nor should the statements contained herein be considered an official expression. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE is made with respect to the information contained herein.