SAFETY DATA SHEETS

This SDS packet was issued with item: 078380724

N/A



SAFETY DATA SHEET

1. Identification

Product identifier	Azathioprine Tablets
Other means of identification	
Product code	50 mg Tablet, debossed with product identification "54 043" on one side, and plain on the other.
Recommended use	An adjunct for the prevention of rejection in renal homotransplantation. It is also indicated for the management of active rheumatoid arthritis to reduce signs and symptoms
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	

Company name	Boehringer Ingelheim Roxane Inc.
Address	1809 Wilson Road
	Columbus, Ohio 43228
Telephone	(614) 276-4000
Emergency phone number	(614) 276-4000

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	This is a pharmaceutical product designed to professional. Should any person while using the should seek medical treatment.	be prescribed by a licensed health care his product observe any adverse health effects, they
Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response	Wash hands after handling.	
Storage	Protect from light. Protect from moisture. Store	e between 15ºC (59ºF) and 25ºC (77ºF).
Disposal	Incineration of waste at an approved USEPA i	ncinerator is recommended.
Hazard(s) not otherwise classified (HNOC)	None known.	

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
6-[(1-methyl-4-nitro-1H-im I-5-yl)thio]-1H-purine	idazo	446-86-6	50 mg
Composition comments	Refer to Physician's Desk Reference for comr	non components present at	<1%
4. First-aid measures			
Inhalation	If dust from the material is inhaled, remove the physician if symptoms develop or persist.	e affected person immediate	ely to fresh air. Call a
Skin contact	Wash off with soap and water. Get medical at	tention if irritation develops	and persists.
Eye contact	Rinse with water. Get medical attention if irrita	tion develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptor call a poison control center immediately.	ns occur. If ingestion of a la	rge amount does occu

Most important A gastrointestinal hypersensitivity reaction characterized by severe nausea and vomiting has been reported. These symptoms may also be accompanied by diarrhea, rash, fever, malaise, myalgias, symptoms/effects, acute and elevations in liver enzymes, and occasionally, hypotension. Additional side effects of low delayed frequency have been reported. These include skin rashes, alopecia, fever, arthralgias, diarrhea, steatorrhea, negative nitrogen balance, and reversible interstitial pneumonitis and hepatosplenic T-cell lymphoma and Sweet's Syndrome (acute febrile neutrophilic dermatosis). Indication of immediate Treat symptomatically. **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 5. Fire-fighting measures

medical attention and special treatment needed

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment (See Section 8).
Methods and materials for containment and cleaning up	Sweep up and place into a proper container for disposal. Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. Incineration of waste at an approved USEPA incinerator is recommended.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Wash hands thoroughly after handling.
Conditions for safe storage,	Protect from light. Protect from moisture. Store between 15°C (59°F) and 25°C (77°F). Store away
including any incompatibilities	from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

No exposure limits noted for ingredient(s).
No biological exposure limits noted for the ingredient(s).
Ventilation should be matched to conditions.
such as personal protective equipment
None required for consumer use. In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.
For consumer use, no unusual precautions are necessary.
None required for consumer use. In laboratory, medical or industrial settings, gloves and lab coats are recommended. The use of additional personal protective equipment such as shoe coverings, gauntlets, hood or head coverings may be necessary. Contact a health and safety professional for specific information.

Respiratory protection	None required for consumer use. Respirators may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, air-purifying filter, cartridge or canister. Contact a health and safety professional or manufacturer for specific information.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance .	Yellow, round, scored tablets
Physical state	Solid.
Form	Tablet.
Color	Yellow.
Odor	None.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
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 exp	losive 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	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular formula	C25H43NO18
Molecular weight	645.6
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	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

information on likely routes of e	*xposure			
Inhalation	Not expected to be hazardous in final pharmaceutical form. Mechanical processing may generate dust. Inhalation of dusts may cause respiratory irritation.			
Skin contact	Not expected to be hazardous in final pharmaceutical form. Mechanical processing may generate dust. Dust or powder may irritate the skin.			
Eye contact	Not expected to be hazardous in final pharmaceutical form. Mechanical processing may generate dust. Dust may irritate the eyes.			
Ingestion	Ingestion may cause irritation and malaise.			
Symptoms related to the physical, chemical and toxicological characteristics	A gastrointestinal hypersensitivity reaction characterized by severe nausea and vomiting has been reported. These symptoms may also be accompanied by diarrhea, rash, fever, malaise, myalgias, elevations in liver enzymes, and occasionally, hypotension Additional side effects of low frequency have been reported. These include skin rashes, alopecia, fever, arthralgias, diarrhea, steatorrhea, negative nitrogen balance, and reversible interstitial pneumonitis and hepatosplenic T-cell lymphoma. (see Warnings – Malignancy), and Sweet's Syndrome (acute febrile neutrophilic dermatosis).			
Information on toxicological eff	ects			
Acute toxicity	The oral LD50s for single doses of azathioprine in mice and rats are 2500 mg/kg and 400 mg/kg, respectively. Very large doses of this antimetabolite may lead to marrow hypoplasia, bleeding, infection, and death			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/eye irritation	Dust may irritate the eyes.			
Respiratory or skin sensitization	n			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	This product is not expected to be mutagenic.			
Carcinogenicity	Patients receiving immunosuppressants are at increased risk of developing lymphoma and other malignancies, particularly of the skin			
IARC Monographs. Overall	Evaluation of Carcinogenicity			
6-[(1-methyl-4-nitro-1H-ir (CAS 446-86-6) NTP Report on Carcinogen	nidazol-5-yl)thio]-1H-purine 1 Carcinogenic to humans.			
6-[(1-methyl-4-nitro-1H-ir (CAS 446-86-6)	nidazol-5-yl)thio]-1H-purine Known To Be Human Carcinogen.			
Not listed.	ed Substances (29 CFR 1910.1001-1050)			
Reproductive toxicity	This product has been rated Pregnancy Category D-POSITIVE EVIDENCE OR RISK, There is a risk to fetus after drug is administered, but under certain circumstances (e.g., treatment of life threatening illnesses) the benefits can outweigh the risk. Animal reproduction studies have not been conducted with product			
	Avoid contact during pregnancy/while nursing.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.			
Further information	See package insert.			
12. Ecological informatior	1			
Ecotoxicity	The product is not classified as environmentally hazardous.			
Azathionrine Tablets	211 2 0 2			

Azathioprine Tablets 922997 Version #: 01 Revision date: - Issue date: 11-November-2014

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Partition coefficient n-octan	ol / water (log Kow)
6-[(1-methyl-4-nitro-1H-imidaz	ol-5-yl)thio]-1H-purine 0.1

(CAS 446-86-6)Mobility in soilNo data available.Other adverse effectsNone.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispense in a tight, light-resistant container as defined in the USP/NF.
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	Dispose of in accordance with local regulations. 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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This material is not listed on the US TSCA Inventory. Therefore, it can only be used for TSCA exempt purposes such as R&D or drug use.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

6-[(1-methyl-4-nitro-1H-imidazol-5-yl)thio]-1H-purine (CAS 446-86-6)

- US. New Jersey Worker and Community Right-to-Know Act
 - Not listed.
- US. Pennsylvania Worker and Community Right-to-Know Law
- 6-[(1-methyl-4-nitro-1H-imidazol-5-yl)thio]-1H-purine (CAS 446-86-6)
- US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

6-[(1-methyl-4-nitro-1H-imidazol-5-yl)thio]-1H-purine (CAS 446-86-6)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies 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

available.

Issue date	11-November-2014
Revision date	-
Version #	01
References	1) Azathioprine Tablets USP, Package Insert, Roxane Laboratories, Inc., Columbus, Ohio.
	2) PDR – Physicians Desk Reference.
	3) Ariel Webinsight. Regulatory and ChemExpert Database.
Disclaimer	Boehringer Ingelheim Roxane Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently



Material Safety Data Sheet

1. CHEMICAL PR	RODUCT AND COMPANY IDEN	ITIFICATION			
	ne: Azathioprine Tablets USP				
	I-Purine, 6-[(1-methyl-4-nitro-1H-ir	midazol-5-yl)thio	-		
Synonyms: None					
Molecular Formula:					
Molecular Weight: 2	277.26				
CAS No: 446-86-6		•			
	nmunosuppressive antimetabolite		gement of active rheumatoid arthritis		
Manufacturer's Name					
Address:	1809 Wilson Road		.		
Address.	Columbus, Ohio 43228				
2. COMPOSITION	I / INFORMATION ON INGRED	IENTS			
Composition		CAS#	Exposure Limit		
Azathioprine (active	e ingredient)	446-86-6	None established		
REFER to PHYSICI	AN'S DESK REFERENCE for com	mon components	s present as <1%		
3. HAZARDS IDE	NTIFICATION				
Emergency	Physical State: Round, scored t				
Overview	The 50 mg tablets are yellow wi	th "54 043" engra	aved on one side and a scored line on the other.		
	Odor: No data available				
	DANGER!				
	Product contains a known cancer causing agent.				
	May be harmful if swallowed.				
	Accidental ingestion of large an	nounts may be h	armful.		
Primary Route(s)					
of Entry	Ingestion				
Potential Health	Inhalation: Not expected to be an inhalation hazard in final pharmaceutical form.				
Effects:	Eye Contact: Not expected to be a hazard to the eye in final pharmaceutical form.				
	Skin Contact: Not expected to b	e a hazard to the	e skin. Can cause hypersensitive reactions		
	resulting in rash, redness, itchi				
	Ingestion: May be harmful if ingested. Ingestion may cause nausea, vomiting, fever, fast				
	heartbeat, low blood pressure and unusual bleeding.				
Toxicity Data:	See Section 11				
Effects of	The potential for exposure is re				
Overexposure:			agent. Overexposure by ingestion may cause er chronic conditions of azathioprine may		
			ression, liver problems, pancreatitis, and cancer.		
Target Organs:	Immune system, bone marrow,				
4. FIRST AID ME					
	ROOKLO				

		Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses if worn. Get medical attention if symptoms persist.				
Skin Exposur	re	Wash with soap and water. Get medical attention if symptoms occur.				
Ingestion		Call a ph	ysician or poison	n control center imme	diately.	
Inhalation				bose a hazard in the final form. If breathing is difficult, move to fresh air. Get ntion immediately.		
5. FIRE ANI	D EXPLO	SION H	AZARDS			
Flammability			Lower: N/A	Upper:	N/A	
Flash Point		Not Applicable				
Extinguishing Media			Use water spray, dry chemical, carbon dioxide, foam or material appropriate for fire in surrounding area			
Special Fire Fighting Procedures		Wear full prote	Wear full protective clothing and self-contained breathing apparatus.			
Unusual Fire/ Hazards	-		Not Applicable	9		
Hazardous Co Products	ombustio	n	Carbon dioxid	le, carbon monoxide,	oxides of nitrogen, oxides	of sulfur
6. ACCIDEN	NTAL RE	LEASE	NFORMATION			
Use appropri compatible compatible compatible compatible comment	ate perso ontainer. ded.	nal prote Dispose	ctive equipment	licable regulations. In	p up and containerize spil incineration of the waste at	
Precautions Handling Sig	nificant	Avoid contact with eyes, sk		s, skin and clothing. W	lash thoroughly after hand	dling.
Quantities:						
			t 15° to 25°C (59° re. Store away fro		niner closed tightly. Protec	t from light and
Storage	. MEASUR	moistu	re. Store away fro			t from light and
Storage 8. CONTROL		moistu	re. Store away fro	om foodstuffs.		t from light and
Storage 8. CONTROL Exposure Lin	nits	moistu RES AND None	re. Store away fro PERSONAL PRO Juired when hand	om foodstuffs. DTECTIVE EQUIPMEN		_
Storage 8. CONTROL Exposure Lin Engineering (Respiratory	nits	Moistu RES AND None Not reo conditi Not reo protect	re. Store away fro PERSONAL PRO uired when hand ons. uired when hand ion should be us	om foodstuffs. DTECTIVE EQUIPMEN Iling tablets or contain	T	e matched to ved respirators for
Storage 8. CONTROL Exposure Lin Engineering (Respiratory Protection	nits Controls	Moistu RES AND None Not rec conditi Not rec protect matche	re. Store away fro PERSONAL PRO uired when hand ons. uired when hand ion should be us ed to conditions.	om foodstuffs. DTECTIVE EQUIPMEN Iling tablets or contain Iling tablets or contain ed if respirators are fo	T ners. Ventilation should be ners. NIOSH/MSHA approvound to be necessary. Ver	e matched to red respirators for ntilation should be
Storage 8. CONTROL Exposure Lin Engineering (Respiratory Protection Personal Pro	nits Controls tection	Moistu RES AND None Not rec conditi Not rec protect matche	re. Store away fro PERSONAL PRO uired when hand ons. uired when hand ion should be us ed to conditions.	om foodstuffs. DTECTIVE EQUIPMEN Iling tablets or contain Iling tablets or contain ed if respirators are fo	T ners. Ventilation should be ners. NIOSH/MSHA approv	e matched to red respirators for ntilation should be
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Storage 8. CONTROL Exposure Lin Engineering (Respiratory Protection Personal Pro Recommende Facilities 9. PHYSICA	nits Controls tection ed	Moistu RES AND None Not rec conditi Not rec protect matche If conta Eye wa MICAL C round,	re. Store away fro PERSONAL PRO uired when hand ons. uired when hand ion should be us ed to conditions. hiners are compro sh, washing facil	om foodstuffs. DTECTIVE EQUIPMEN Iling tablets or contain Iling tablets or contain ed if respirators are for omised or exposure is	T ners. Ventilation should be ners. NIOSH/MSHA approvound to be necessary. Ver	e matched to red respirators for ntilation should be
Storage 8. CONTROL Exposure Lin Engineering (Respiratory Protection Personal Pro Recommende Facilities 9. PHYSICA Appearance	nits Controls tection ed AL / CHEI Yellow,	Moistu RES AND None Not rec conditi Not rec protect matche If conta Eye wa MICAL C round, tablets	re. Store away fro PERSONAL PRO uired when hand ons. uired when hand ion should be us d to conditions. iners are compro sh, washing facil	om foodstuffs. DTECTIVE EQUIPMEN Illing tablets or contain red if respirators are for omised or exposure is lities	T ners. Ventilation should be ners. NIOSH/MSHA approv ound to be necessary. Ver s likely wear: Goggles, Lak	e matched to ved respirators for ntilation should be o Coat, Gloves
Storage 8. CONTROL Exposure Lin Engineering (Respiratory Protection Personal Pro Recommende Facilities	nits Controls tection ed AL / CHEI Yellow, scored	Moistu RES AND None Not req conditi Not req protect matche If conta Eye wa WICAL C round, tablets ilable	re. Store away fro PERSONAL PRO Juired when hand ion should be us id to conditions. iners are compro sh, washing facil HARACTERIST Melting point	om foodstuffs. DTECTIVE EQUIPMEN Illing tablets or contain red if respirators are for omised or exposure is lities	T ners. Ventilation should be ners. NIOSH/MSHA approvo ound to be necessary. Ver s likely wear: Goggles, Lak Solubility in water	e matched to ved respirators for ntilation should be o Coat, Gloves

Stability Stable Incompatibility None known	
Hazardous	
Decomposition Oxides of carbon, oxides of nitrogen, oxides of sulfur	
Conditions to Avoid Excessive heat, light	
Hazardous Polymerization Will not occur.	
11. TOXICOLOGICAL INFORMATION	
Acute Toxicity:	
Active Ingredient: LD50 Oral (rat): 400 mg/kg LD50 Oral (mouse): 1389 mg/kg	
Azathioprine is carcinogenic, mutagenic and teratogenic in animals and humans.	
Carcinogenicity: Azathioprine is listed as an IARC 1 Carcinogen (Carcinogenic to Humans) and a NTP Known Carcinogen.	
12. ENVIRONMENTAL IMPACT INFORMATION	
No information is currently available on the environmental impact of this product.	
13. DISPOSAL INFORMATION	
Waste Disposal Considerations: Dispose of material according to federal, state and local disposal regulations or company operating procedures. Disposal by incineration is recommended. At home: Discard away from children's reach.	
14. TRANSPORTATION INFORMATION	
This product is not subject to the regulations for the safe transport of hazardous chemicals. DOT: Not regulated TDG: Not regulated IATA: Not regulated IMDG: Not regulated	
15. REGULATORY INFORMATION	
DEA: Azathioprine is not a controlled substance.	
FDA: Azathioprine is an approved prescription medication.	
Inventory Status: This material is not listed on the US TSCA Inventory. Therefore, it can only be used for TSCA exempt purposes su as R&D or drug use. This material is not listed on the DSL Inventory but is exempt.	ıch
16. OTHER DATA	
ABBEVIATIONS: N/A – not applicable	
Prepared by: Boehringer Ingelheim Roxane, Inc.	
 References: 1. Azathioprine Tablets USP, Package Insert, Boehringer Ingelheim Roxane, Inc., Columbus, Ohio 2. RTECS No. U08925000 – Purine, 6-((1-methyl-4-nitroimidazol-5-yl)thio)- 3. Ariel Webinsight. Regulatory and ChemExpert Database. 4. PDR – Physicians Desk Reference 	
Date: 09/13/2008 - New MSDS	

Page 4 of 4 – Azathioprine Tablets USP

The information provided is believed to be complete and accurate. If this product is combined with other materials, deteriorates or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the users' responsibility to use the information according to the application. Boehringer Ingelheim Roxane, Inc. assumes no responsibility or liability resulting from the use of this information.