

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name:	Minoxidil	
Synonyms:	2,3-dihydro-3-hydroxy-2-imino-6-(1-piperidinyl)-4-pyrimidinamine	
Company Identification:	PI Chemicals Ltd.	
	Room 512, Building 1	
	88 Cailun Road,Zhangjiang Hi-Tech park,	
	Pudong New Area, Shanghai 201203, China	
Telephone Number:	86-21-58953700	
Fax Number:	86-21-58953701	

Section 2 - Product Information

Catalog Number:	PI-11491
CAS Number:	38304-91-5
MDL Number:	MFCD00063409
Purity:	98%

Section 3 - Physical and Chemical Properties

Appearance:	Powder
Color:	White
Odor:	Odorless
Molecular Formula:	C9H15N5O
Molecular Weight:	209.25
Freezing/Melting Point:	272-274 ℃
Boiling Point:	Not available
Flash Point:	Not available
Autoignition Temperature:	Not available
Refractive Index (nD20):	Not available
Density:	Not available
Decomposition Temperature:	Not available
Solubility:	Partially insoluble in water

Section 4 - Hazards Identification

Eye:	Causes eye irritation.
Skin:	Causes skin irritation. Harmful if absorbed through the skin.
Ingestion:	May be harmful if swallowed.



Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

Eye:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and	
	lower eyelids. Get medical aid.	
Skin:	Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while	
	removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.	
Ingestion:	Get medical aid immediately. Wash mouth out with water.	
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial	
	respiration. If breathing is difficult, give oxygen. Get medical aid.	

Section 6 - Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Materials to avoid:	Strong oxidizing agents, bases.
Conditions to avoid:	Incompatible materials.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization:	Will not occur.

Section 7 - Handling and Storage

Handling:	Avoid contact with skin and eyes. Wash thoroughly after handling. Handling should occur in
	a chemical fume hood.
Storage:	Store in a cool, dry well place. Keep container tightly closed when not in use. Protect from
	light.

Section 8 - Personal Protection

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's	
	eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin:	Wear appropriate protective gloves to prevent skin exposure.	
Clothing:	Wear appropriate protective clothing to prevent skin exposure.	
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN	
	149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure	
	limits are exceeded or if irritation or other symptoms are experienced.	

Section 9 - Fire and Explosion Hazard Data

General Information:	As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH
	(approved or equivalent) and protective clothing to prevent contact with skin
	and eyes.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or appropriate foam.



Section 10 - Accidental Release Measures

General Information:Use proper personal protective equipment as indicated in Section 8.Spills/Leaks:Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

Not available.

Section 12 - Environmental information

Not available.

Section 13 - Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 - Transport Information

ADR/RID:	Not dangerous goods
IMDG:	Not dangerous goods
IATA:	Not dangerous goods

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC DirectivesHazard Symbols:XnIndication of Danger:Not availableRTECS:UV8200000Risk Statements:22-36/37/38Safety Statements:26-36WGK Germany:3

Section 16 - Additional Information

MSDS Creation Date:	March 15, 2006
Update:	May 6, 2008



PI CHEMICALS LTD.

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