

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

<i>MSDS Name:</i>	Erlotinib hydrochloride
<i>Synonyms:</i>	N-(3-Ethynylphenyl)-6,7-bis(2-methoxyethoxy)quinazolin-4-amine hydrochloride
<i>Company Identification:</i>	PI Chemicals Ltd. Room 6-306, Building 2 1341 Pudong South Road Pudong New Area, Shanghai 200212, China
<i>Telephone Number:</i>	86-21-51389368
<i>Fax Number:</i>	86-21-51389367
<i>Emergency Number:</i>	86-21-51389369

Section 2 - Product Information

<i>Catalog Number:</i>	PI-33999
<i>CAS Number:</i>	183319-69-9
<i>Purity:</i>	99.0%

Section 3 - Physical and Chemical Properties

<i>Physical state:</i>	Crystalline powder
<i>Color:</i>	White or off-white
<i>Odor:</i>	Not available
<i>Molecular Formula:</i>	C ₂₂ H ₂₃ N ₃ O ₄ .HCl
<i>Molecular Weight:</i>	429.9
<i>Freezing/Melting Point:</i>	220-228 deg C
<i>Boiling Point:</i>	Not available
<i>Flash Point:</i>	Not available
<i>Autoignition Temperature:</i>	Not available
<i>Refractive Index (nD20):</i>	Not available
<i>Density:</i>	Not available
<i>Decomposition Temperature:</i>	Not available
<i>Solubility:</i>	Not available

Section 4 - Hazards Identification

<i>Eye:</i>	Causes eye irritation.
<i>Skin:</i>	Causes skin irritation. Harmful if absorbed through the skin.
<i>Ingestion:</i>	May cause irritation of the digestive tract. Toxic if swallowed.
<i>Inhalation:</i>	May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

<i>Eye:</i>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<i>Skin:</i>	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.
<i>Ingestion:</i>	Get medical aid immediately. Wash mouth out with water.
<i>Inhalation:</i>	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

<i>Chemical Stability:</i>	Stable under normal temperatures and pressures.
<i>Materials to avoid:</i>	Strong oxidizing agents.
<i>Conditions to Avoid:</i>	Incompatible materials.
<i>Hazardous Decomposition Products:</i>	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.
<i>Hazardous Polymerization:</i>	Will not occur.

Section 7 - Handling and Storage

<i>Handling:</i>	Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.
<i>Storage:</i>	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Personal Protection

<i>Eyes:</i>	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.
<i>Skin:</i>	Wear appropriate protective gloves to prevent skin exposure.
<i>Clothing:</i>	Wear appropriate protective clothing to prevent skin exposure.
<i>Respirators:</i>	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

<i>General Information:</i>	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.
<i>Extinguishing Media:</i>	Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - Accidental Release Measures

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

Section 11 - Toxicological Information

RTECS#: CAS# 183319-69-9: Not available
LD50/LC50: RTECS: Not available.
Carcinogenicity: Erlotinib hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

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

IATA: This substance is considered to be non-hazardous for transport.
IMO: This substance is considered to be non-hazardous for transport.
RID/ADR: This substance is considered to be non-hazardous for transport.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 22: Harmful if swallowed.

Safety Phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS#183319-69-9: 2

Canada

CAS#183319-69-9: Not available

US Federal

TSCA

CAS# 183319-69-9 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: March 15, 2006
Update: November 2, 2007

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