

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

| MSDS Name: | Pergolide mesylate | |
|-------------------------|--|--|
| Synonyms: | Not available. | |
| Company Identification: | PI Chemicals Ltd. | |
| | Building B, 633 E Shan Road, Pudong New Area | |
| | Shanghai 200127, China | |
| Telephone Number: | 86-21-58953700 | |
| Fax Number: | 86-21-58953701 | |

Section 2 - Product Information

| Catalog Number: | PI-25772 |
|-----------------|---------------|
| CAS Number: | 66104-23-2 |
| MDL Number: | MFCD00153859 |
| EC Number: | Not available |
| Purity: | 98.0% |

Section 3 - Physical and Chemical Properties

| Physical state: | Powder |
|----------------------------|---------------------------|
| Color: | Off-white |
| Molecular Formula: | $C_{20}H_{30}N_2O_3S_2\\$ |
| Molecular Weight: | 410.59 |
| Freezing/Melting Point: | Undetermined |
| Boiling Point: | Undetermined |
| Flash Point: | Undetermined |
| Autoignition Temperature: | Undetermined |
| Refractive Index (nD20): | Undetermined |
| Density: | Undetermined |
| Decomposition Temperature: | Undetermined |
| Solubility: | Undetermined |

Section 4 - Hazards Identification

| Eye: | Causes eye irritation. |
|-------------|--|
| Skin: | Causes skin irritation. Harmful if absorbed through the skin. |
| Ingestion: | May cause irritation of the digestive tract. Toxic if swallowed. |
| Inhalation: | May be harmful if inhaled. Cause 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 under normal temperatures and pressures. |
|-----------------------------------|---|
| Materials to avoid: | Strong oxidizing agents. |
| Conditions to Avoid: | Has not been reported. |
| Hazardous Decomposition Products: | Carbon oxides, nitrogen oxides (NOx), Sulphur oxides. |
| Hazardous Polymerization: | Has not been reported. |

Section 7 - Handling and Storage

- *Handling:* Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required. Keep away from sources of ignition No smoking.
- *Storage:* Store in a cool, dry place. Store in a tightly closed container. Recommended storage temperature: -20 °C

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, alcohol-resistant foam, dry chemical or carbon dioxide. | |



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

RTECS#:CAS# 66104-23-2: KE6345000LD50/LC50:Not available.Carcinogenicity:Pergolide mesylate - 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 | ΙΜΟ | RID/ADR |
|----------------|--------------------------|--------------------------|--------------------------|
| Shipping Name: | ALKALOIDS, SOLID, N.O.S. | ALKALOIDS, SOLID, N.O.S. | ALKALOIDS, SOLID, N.O.S. |
| | (Pergolide mesylate) | (Pergolide mesylate) | (Pergolide mesylate) |
| Hazard Class: | 6.1 | 6.1 | 6.1 |
| UN Number: | 1544 | 1544 | 1544 |
| Packing Group: | II | П | Π |

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Signal word: Danger Hazard statement(s) H 300: Fatal if swallowed.

Risk Phrases:

R 28: Very Toxic if swallowed .

Safety Phrases:

- S28: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)
- S29: Do not empty into drains



- S30: Never add water to this product
- S33: Take precautionary measures against static discharges
- S35: This material and its container must be disposed of in a safe way
- S36: Wear suitable protective clothing
- S37: Wear suitable gloves
- S38: In case of insufficient ventilation, wear suitable respiratory equipment
- S39: Wear eye/face protection
- S40: To clean the floor and all objects contaminated by this material use ... (to be specified by the manufacturer)
- S41: In case of fire and/or explosion do not breathe fumes
- S42: During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified)
- S43: In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases the risk add Never use water)
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

WGK (Water Danger/Protection)

CAS# 66104-23-2: 3

Canada

CAS#66104-23-2: Not available

US Federal

TSCA

CAS# 66104-23-2 is listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

| MSDS Creation Date: | Mar 15, 2006 |
|---------------------|--------------|
| Update: | Apr 12, 2012 |

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