

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

MSDS Name:	3-Thienylmalonic acid	
Synonyms:		
Company Identification:	Shanghai PI Chemicals Ltd.	
	Room 6-306, Building 2	
	1341 Pudong South Road	
	Pudong New Area, Shanghai 200212, China	
Telephone Number:	86-21-51389368	
Fax Number:	86-21-51389367	
Emergency Number:	86-21-51389369	

Section 2 – Product Information

Catalog Number:	PI-12394
CAS #:	21080-92-2
MDL #:	MFCD00005469
EINECS#	244-198-9
Purity:	98.0%

Section 3 – Physical and Chemical Properties

Physical state:	Crystalline powder
Color:	White to off-white
Odor:	Not available
Molecular Formula:	$C_7H_6O_4S$
Molecular Weight:	186.19
Freezing/Melting Point:	134-136 deg C
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:	Not available

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. 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 under normal temperatures and pressures.
Materials to avoid:	Strong oxidizing agents.
Conditions to Avoid:	Incompatible materials.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, sulfur dioxides, irritating and
	toxic fumes and gases.
Hazardous Polymerization:	Hazardous Polymerization.

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.
- **Storage:** Store in a cool, dry place. Store in a tightly closed container.

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

RTECS#: CAS# 21080-92-2: Not available

LD50/LC50: RTECS: Not available.

Carcinogenicity: 3-Thienylmalonic acid - 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: No data available
- IMO: No data available
- RID/ADR: No data available

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 24/25 Avoid contact with skin and eyes.

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

WGK (Water Danger/Protection)

CAS#21080-92-2: 3

Canada

CAS# 21080-92-2 is listed on Canada's NDSL List.

US Federal

TSCA

CAS# 21080-92-2 is listed on the TSCA Inventory.

Section 16 – Additional Information

MSDS Creation Date:	August 27, 2007
Update:	Original

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