

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name:	2,5-Bis-(5-tert-butyl-2-benzoxazol-2-yl)thiophene	
Synonyms:	BBOT	
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-12266
CAS Number:	7128-64-5
MDL Number:	MFCD00005774
EC Number:	230-426-4
Purity:	98%

Section 3 - Physical and Chemical Properties

Physical state:	Powder
Color:	Pale yellow
Molecular Formula:	$C_{26}H_{26}N_2O_2S$
Molecular Weight:	430.56
Freezing/Melting Point:	199 - 201 ° C (390 - 394 ° F) - lit.
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

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Section 6 - Stability and Reactivity

Chemical Stability:	Keep container tightly closed in a dry and well-ventilated place.
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:* Keep container tightly closed in a dry and well-ventilated place.

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# 7128-64-5: DM4888332
LD50/LC50:	LD50 Oral - rat - > 10,000 mg/kg
Carcinogenicity:	2,5-Bis-(5-tert-butyl-2-benzoxazol-2-yl)thiophene - Not listed as a carcinogen by ACGIH,
	IARC, NTP, or OSHA.

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:	Not dangerous goods.
IMO:	Not dangerous goods.
RID/ADR:	Not dangerous goods.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

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

S 36: Wear suitable protective clothing.

WGK (Water Danger/Protection)

CAS# 7128-64-5: 1

Canada

CAS# 7128-64-5: Not available

US Federal

TSCA



CAS# 7128-64-5: is listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date:	Mar 15, 2008
Update:	Mar 23, 2012

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