

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name:	Ibudilast	
Synonyms:	1-(2-isopropylpyrazolo[1,5-a]pyridin-3-yl)-2-methylpropan-1-one	
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-21787
CAS Number:	50847-11-5
Purity:	99.8%

Section 3 - Physical and Chemical Properties

Physical state:	Crystalline powder
Color:	White
Odor:	Not available
Molecular Formula:	$C_{14}H_{18}N_2O$
Molecular Weight:	230.31
Freezing/Melting Point:	55-56 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:	Insoluble in water, soluble in ethanol, methanol

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, nitrogen oxides.
Hazardous Polymerization:	Will not occur.

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 well ventilated place away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

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

SH

(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#50847-11-5: Not availableLD50/LC50:RTECS: Not available.Carcinogenicity:Ibudilast - 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 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#50847-11-5: 2



Canada

CAS#50847-11-5: Not available

US Federal

TSCA

CAS# 50847-11-5 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date:	March 25, 2006
Update:	July 15, 2008

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