

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name:	Tris(trimethylsilyl)phosphine
Synonyms:	
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-35224
CAS Number:	15573-38-3
MDL Number:	MFCD00015487
EC Number:	Not available
Purity:	98%

Section 3 - Physical and Chemical Properties

Physical state:	Liquid
Color:	Colorless
Molecular Formula:	C9H27PSi3
Molecular Weight:	250.54
Freezing/Melting Point:	Undetermined
Boiling Point:	243 - 244 °C (469 - 471 °F) - lit.
Flash Point:	Undetermined
Autoignition Temperature:	Undetermined
Refractive Index (nD20):	Undetermined
Density:	0.863 g/cm3 at 25 °C (77 °F)
Decomposition Temperature:	Undetermined
Solubility:	Undetermined

Section 4 - Hazards Identification

Eye:	Causes eye initation.
Skin:	Causes skin irritation. Harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. Toxic if swallowed.

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Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial	
	respiration.	
In case of skin contact:	Wash off with soap and plenty of water.	
In case of eye contact:	Flush eyes with water as a precaution.	
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water.	

Section 6 - Stability and Reactivity

Chemical Stability:	Stable under recommended temperatures and pressures.
Materials to avoid:	Strong oxidizing agents.
Conditions to Avoid:	Avoid moisture. Exposure to air.
Hazardous Decomposition Products:	Carbon oxides, Oxides of phosphorus, silicon oxides.
Hazardous Polymerization:	Has not been reported.

Section 7 - Handling and Storage

Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.	
	Keep away from sources of ignition - No smoking.	
Storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are	
	opened must be carefully resealed and kept upright to prevent leakage.	
	Recommended storage temperature: 2 - 8 °C	
	Handle and store under inert gas. Air and moisture sensitive.	

Section 8 - Personal Protection

Eyes:	Wear appropriate protective eyeglasses.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Use an 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

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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# 15573-38-3: Not available.
LD50/LC50:	RTECS: Not available.
Carcinogenicity:	Tris(trimethylsilyl)phosphine
	-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:	UN-Number: 2845 Class: 4.2 Packing group: I.
IMO:	UN-Number: 2845 Class: 4.2 Packing group: I.
RID/ADR:	UN-Number: 2845 Class: 4.2 Packing group: I.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols: F, Xi Indication of Danger: Highly Flammable, Irritant Risk Phrases: R 17: Spontaneously flammable in air. R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

- S 16: Keep away from sources of ignition No smoking.
- S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 27: Take off immediately all contaminated clothing.
- S 28: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
- S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.



WGK (Water Danger/Protection) CAS#15573-38-3: 3. Canada CAS# 15573-38-3: Not available.

US Federal

TSCA

CAS# 15573-38-3 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date:	27 January, 2009
Update:	29 August, 2011

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