

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: BOC anhydride
Synonyms: Di-tert-butyl pyrocarbonate
Catalog number: PI-24265

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.
633 Eshan Road,
Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700

Fax number: +86-21-58953701

E-mail address: info@pipharm.com

Emergency telephone number

Emergency number: +86-21-58953706

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Flammable liquids	Category 3
Acute toxicity, Inhalation	Category 1
Skin irritation	Category 2
Eye irritation	Category 2
Skin sensitisation	Category 1
Specific target organ toxicity - single exposure	Category 3

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

Precautionary statement(s)

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280: Wear protective gloves.

P284: Wear respiratory protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

HMIS classification:

Health hazard: 3

Flammability: 3

Physical hazards: 0

NFPA rating:

Health hazard: 4

Fire: 3

Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

Molecular formula: C₁₀H₁₈O₅

Molecular weight: 218.25

<i>Component</i>		<i>Concentration</i>
<i>CAS Number:</i>	24424-99-5	99%
<i>EC Number:</i>	246-240-1	

Section 4 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.

Skin: Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Ingestion: Wash mouth out with water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides.

Advice for firefighters: Wear a self-contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry and well-ventilated place. Keep container tightly closed.

Recommended storage temperature: 2 - 8 °C.

Avoid heating above: 40°C. Store under inert gas. Moisture sensitive.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or

CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

<i>Physical state:</i>	Liquid
<i>Color:</i>	Colorless to light yellow
<i>Odour:</i>	No data available
<i>Melting point/freezing point:</i>	23 °C(lit.)
<i>Initial boiling point and boiling range:</i>	56 - 57 °C at 0.7 hPa - lit.
<i>Flash point:</i>	37 °C - closed cup
<i>Evaporation rate:</i>	No data available
<i>Flammability(solid, gas):</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Vapour pressure:</i>	No data available
<i>Vapour density:</i>	No data available
<i>Relative density:</i>	0.95 g/cm ³ at 25 °C
<i>Solubility:</i>	No data available
<i>Partition coefficient: n-octanol/water:</i>	No data available
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available

Section 10-Stability and Reactivity

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended temperatures and pressures.
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	Heat, flames and sparks.
<i>Incompatible materials:</i>	Oxidizing agents, Reducing agents, Bases, Acids
<i>Hazard Decomposition products:</i>	Carbon oxides.

Section 11 - Toxicological Information

<i>Acute toxicity:</i>	
Component: BOC anhydride	
LD50 Oral - Mammal - > 5,000 mg/kg	
LC50 Inhalation - rat - 4 h - 100 mg/m ³	
LD50 Dermal - Mammal - > 2,000 mg/kg	
<i>Skin corrosion/irritation:</i>	No data available
<i>Serious eye damage/eye irritation:</i>	No data available
<i>Respiratory or skin sensitization:</i>	No data available
<i>Germ cell mutagenicity:</i>	No data available

Carcinogenicity:

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Reproductive toxicity: No data available

Specific target organ toxicity (STOT)-single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity (STOT)-repeated exposure: No data available

Aspiration hazard: No data available

Additional information: RTECS#: HT0230000

Section 12 – Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Section 13 - Disposal Consideration

Waste treatment methods

Product: Dispose of in accordance with federal, state and local environmental regulations

Contaminated packaging: Dispose of as unused product

Section 14 - Transport Information

IATA

UN number: 2929

Hazard class: 6.1

Packing group: I

Proper shipping name: TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (BOC anhydride)

IMDG

UN number: 2929

Hazard class: 6.1

Packing group: I

Proper shipping name: TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (BOC anhydride)

RID/ADR

UN number: 2929

Hazard class: 6.1

Packing group: I

Proper shipping name: TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (BOC anhydride)

DOT(US)

UN number:	2929
Hazard class:	6.1
Packing group:	I
Proper shipping name:	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (BOC anhydride)

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

No data available

*Chemical safety assessment:*No data available

Section 16 – Other Information

SDS creation date: Mar 13, 2013

Update: Oct 30, 2014

Disclaimer:

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