

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: 4-tert-Butylbenzyl bromide
Synonyms: 1-Bromomethyl-4-tert-butylbenzene
Catalog number: PI-12017

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

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):

H 314: Causes severe skin burns and eye damage

Precautionary statement(s)

P 280: Wear protective gloves/ protective clothing/ eye protection/ face 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.

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): Xn Harmful

Risk phrases:

R 34: Causes burns

Safety phrases:

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

S 36/37/39: Wear suitable protective clothing and gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

HMS classification:

Health hazard: 3

Chronic health hazard: *

Flammability: 1

Physical hazards 0

NFPA rating:

Health hazard: 3

Fire: 1

Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

Molecular formula: C₁₁H₁₅Br

Molecular weight: 227.14

Component	Concentration
CAS Number: 18880-00-7	95%
EC Number: 242-643-1	

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, Hydrogen bromide gas

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 dry, well-ventilated place. Keep tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

Physical state:	Clear liquid
Color:	Dark yellow to yellow
Odour:	No data available
Melting point/freezing point:	8-12 °C(lit.)
Initial boiling point and boiling range:	93-94 °C/1.5 mmHg(lit.)
Flash point:	110 °C
Evaporation rate:	No data available
Flammability(solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.236 g/mL at 25 °C (lit.)
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section 10-Stability and Reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended temperatures and pressures.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Air sensitive. Kept away from water
Incompatible materials:	Strong oxidizing agents, Strong bases
Hazard Decomposition products:	Carbon oxides, Hydrogen bromide gas

Section 11 - Toxicological Information

Acute toxicity:	
Component: 4-tert-Butylbenzyl bromide	
No data available	
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	May cause allergic reactions.
Germ cell mutagenicity:	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:	No data available
Specific target organ toxicity (STOT)-repeated exposure:	No data available
Aspiration hazard:	No data available
Additional information:	RTECS#: not available

Section 12 – Ecological Information

Toxicity:	No data available
Component: 4-tert-Butylbenzyl bromide	
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Component: 4-tert-Butylbenzyl bromide	
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:	3265
Hazard class:	8
Packing group:	II
Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s. (1-(Bromomethyl)-4-(1,1-dimethylethyl)benzene)

IMDG

UN number:	3265
Hazard class:	8
Packing group:	II EMS-No: F-A, S-B
Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-(Bromomethyl)-4-(1,1-dimethylethyl)benzene)
Marine Pollutant:	No

RID/ADR

UN number:	3265
Hazard class:	8

Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
(1-(Bromomethyl)-4-(1,1-dimethylethyl)benzene)

DOT(US)

UN number: 3265
Hazard class: 8
Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
(1-(Bromomethyl)-4-(1,1-dimethylethyl)benzene)
Marine Pollutant: No
Poison Inhalation Hazard: No

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: May 06, 2013

Update: June 24, 2013

Disclaimer:

The above information is believed to be accurate and represents the best knowledge available to us currently. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.