

# SAFETY DATA SHEET

# Section 1 - Identification of Substanceor Mixture and Company

Product identify:

Product name: Cyclobutyl Bromide Synonyms: Bromocyclobutane

Catalog number: PI-37245

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, 200127

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 2 Skin irritation Category 2 Eye irritation Category 2A

Specific target organ toxicity - single exposure Category 3

Label elements

Classification according to (EC) No 1272/2008





Signal word: Danger

Hazard statement(s):

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation



H319: Causes serious eye irritation.

H335: May cause respiratory irritation

*Precautionary statement(s)* 

P210: Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

*Symbol(s):*Xi Irritant

Risk phrases:

R10: Flammable.

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.

HMIS classification:

Health hazard: 2 Flammability: 3 Physical Hazard 0

NFPA rating:

Health hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0

## Section 3: Composition & Information Ingredients

Molecular formula:  $C_4H_7Br$ Molecular weight: 135.0 g/mol

Component		Concentration
CAS Number:	4399-47-7	97%
EC Number:	224-530-9	

#### 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 whileremoving 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, dry chemical, carbon dioxide, or appropriate foam. Special hazards arising from the substance or mixture: Carbon oxides, Hydrogen bromide gas. Advice for fire fighters: Wear a self-contained breathing apparatus for firefighting 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 at 0-4 °C. Avoid light. 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.

## Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits values.

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: Liquid Color: Colorless

Odour: No data available
Melting point/freezing point: No data available
Initial boiling point and boiling range: 108 °C- lit.

Flash point: $22 \, ^{\circ}\mathbb{C}$  - closed cupEvaporation rate:No data availableFlammability(solid, gas):No data available

Upper/lower flammability

or explosive limits: No data available No data available Vapour pressure: No data available Vapour density: 1.434 g/cm3 at 25 °C Relative density: Solubility: No data available No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity:

## 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: Heat, flames and sparks. Extremes of temperature and

and direct sunlight.

Incompatible materials:Strong oxidizing agents, Strong basesHazard Decomposition products:Carbon oxides, Hydrogen bromide gas

## Section 11 - Toxicological Information

Acute toxicity:No data availableSkin corrosion/irritation:No data availableSerious eye damage/eye irritation:No data availableRespiratory or skin sensitization:No data available

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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 availablePersistence and degradability:No data availableBioaccumulative potential:No data availableMobility in soilNo data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

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: 1993 Hazard class: 3 Packing group: II

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Cyclobutyl Bromide)

IMDG

UN number: 1993 Hazard class: 3 Packing group: II

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Cyclobutyl Bromide)

RID/ADR

UN number: 1993 Hazard class: 3 Packing group: II



Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Cyclobutyl Bromide)

# 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: Oct 17, 2013 Update: Oct 15, 2014

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