

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: Trimethyl-1-hexadecanaminium chloride
Synonyms: Cetyltrimethylammonium chloride
Catalog number: PI-27077

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 irritation (Category 2)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 1)

Label elements

Classification according to (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):

H315: Causes skin irritation

H318: Causes serious eye damage

H400: Very toxic to aquatic life

Precautionary statement(s)**P273: Avoid release to the environment****P280: Wear protective gloves/ 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.****Accroding to EU Directive 67/548/EEC or 1999/45/EC.****Symbol(s): Xi Irritant N Dangerous for the environment****Risk phrases:****R 38: Irritating to the skin****R 41: Risk of serious damage to eyes****R 50: Very Toxic to aquatic organisms****Safety phrases:****S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.****S 39: Wear eye/face protection.****S 61: Avoid release to the environment. Refer to special instructions safety data sheet.****HMS classification:****Health hazard: 2****Chronic health hazard: *****Flammability: 0****Physical hazards : 0****NFPA rating:****Health hazard: 2****Fire: 0****Reactivity hazard: 0****Section 3: Composition & Information on Ingredients****Molecular formula: C₁₉H₄₂CIN****Molecular weight: 320.00**

Component	Concentration
CAS Number: 112-02-7	50%
EC Number: 203-928-6	

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, nitrogen oxides, Hydrogen chloride 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.

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:	Liquid
Color:	Pale yellow to yellow
Odour:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
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:	0.965 - 0.975 g/cm ³
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	< 0.1 Pas at 20 °C

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:	No data available
Incompatible materials:	Strong oxidizing agents
Hazard Decomposition products:	Carbon oxides, nitrogen oxides, Hydrogen chloride gas

Section 11 - Toxicological Information

Acute toxicity:

Component: Trimethyl-1-hexadecanaminium chloride

Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
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: Trimethyl-1-hexadecanaminium chloride

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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life

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: 3082

Hazard class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Cetrimonium chloride)

IMDG

UN number: 3082

Hazard class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cetrimonium chloride) Marine Pollutant: Marine pollutant

RID/ADR

UN number: 3082

Hazard class: 9

Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Cetrimonium chloride)
Marine Pollutant: Marine pollutant

DOT(US)

Not dangerous goods

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: July 23, 2013

Disclaimer:

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