

# **Material Safety Data Sheet**

# Section 1 - Chemical Product and Company Identification

MSDS Name: Aminomalonic acid diethyl ester hydrochloride

Synonyms: Diethyl aminomalonate hydrochloride

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-10004

 CAS Number:
 13433-00-6

 MDL Number:
 MFCD00012510

 EC Number:
 236-556-8

 Purity:
 98%

# Section 3 - Physical and Chemical Properties

Physical state: Powder

Color: Off-white or white Odor: Not available Molecular Formula: C<sub>7</sub>H<sub>13</sub>NO<sub>4</sub>.HCl

Molecular Weight: 211.64

Freezing/Melting Point: 165-170 °C (dec.)(lit.)

Boiling Point:

Flash Point:

Autoignition Temperature:

Refractive Index (nD20):

Density:

Not available

Not available

Not available

Not available

Not available

Solubility:

Not available

Soluble in water

## Section 4 - Hazards Identification

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.



Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

#### Section 5 - First Aid Measures

Eye: May cause eye irritation.Skin: May cause skin irritation.Ingestion: May be harmful if swallowed.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be

harmful if inhaled.

# Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended temperatures and pressures.

Materials to avoid: Strong oxidizing agents.

Conditions to Avoid: Incompatible materials.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

Hazardous Polymerization: Has not been reported.

## Section 7 - Handling and Storage

Handling: Avoid all direct contact with material. Wash thoroughly after handling. Have safety

shower and eye wash available. Do not get in eyes, on skin, on clothing.

Storage: Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

#### Section 8 - Personal Protection

Eves: 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

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# 13433-00-6: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: Aminomalonic acid diethyl ester hydrochloride

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

#### 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: Not dangerous goods.IMO: Not dangerous goods.RID/ADR: Not dangerous goods.

## Section 15 - Regulatory Information

# **European/International Regulations**

**European Labeling in Accordance with EC Directives** 

Hazard Symbols: Xi

**Indication of Danger: Irritant** 

**Risk Phrases:** 

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.

WGK (Water Danger/Protection)

CAS#13433-00-6: 3.

Canada

CAS# 13433-00-6: Not available.

**US Federal** 

**TSCA** 



CAS# 13433-00-6 is not listed on the TSCA Inventory. It is for research and development use only.

## Section 16 - Additional Information

MSDS Creation Date: September 22, 2009 Update: October 2, 2010

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