

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Cyclohexanecarboxaldehyde Synonyms: Hexahydrobenzaldehyde

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-11615

 CAS Number:
 2043-61-0

 MDL Number:
 MFCD00001457

 EC Number:
 218-057-7

Purity: 98%

Section 3 - Physical and Chemical Properties

Form: Colorless to yellowish liquid

Molecular Formula: C₇H₁₂O Molecular Weight: 112.17

Freezing/Melting Point: Not available

Boiling Point: 161 - 163 °C (322 - 325 °F) - lit. **Flash Point:** 41 °C (106 °F) - closed cup

Autoignition Temperature: Not available Refractive Index (nD20): Not available

Density: 0.926 g/cm3 at 25 °C (77 °F)

Decomposition Temperature: Not available Solubility: Not available

Section 4 - Hazards Identification

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Cause eye irritation.

Ingestion: May be harmful if swallowed.



Section 5 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing give artificial

respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Wash off with soap and plenty of water. Consult a physician.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Conditions to avoid: Heat, flames and sparks.

Materials to avoid: Strong bases, Strong oxidizing agents, Strong reducing agents.

Hazardous Decomposition Products: Carbon oxides.

Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of

electrostatic charge.

Storage: 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. Store in cool place.

Handle and store under inert gas.

Section 8 - Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a

full-face respirator with multi-purpose combination (US) or type ABEK (EN

14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such

as NIOSH (US) or CEN (EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove

removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with

applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN



166(EU).

Skin and body protection: Impervious clothing, Flame retardant antistatic protective clothing, The type of

protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash

hands before breaks and at the end of workday.

Section 9 - Fire and Explosion Hazard Data

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam,

dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities

of water.

Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire fighting if

necessary.

Further information: Use water spray to cool unopened containers.

Section 10 - Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter

drains.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an

electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Section 11 - Toxicological Information

RTECS#: CAS# 2043-61-0: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: Cyclohexanecarboxaldehyde

-Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

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

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra

care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal

service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

IATA: UN-Number: 1989 Class: 3 Packing group: III.
 IMO: UN-Number: 1989 Class: 3 Packing group: III.
 RID/ADR: UN-Number: 1989 Class: 3 Packing group: III.

Section 15 - Regulatory Information

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 10: Flammable.

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 16: Keep away from sources of ignition - No smoking.

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

S 36: Wear suitable protective clothing.

WGK (Water Danger/Protection) CAS#2043-61-0: 3.

Section 16 - Additional Information

MSDS Creation Date: March 8, 2008 Update: May 24, 2011

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