TCI AMERICA

# Material Safety Data Sheet

| HAZARD WARNINGS | RISK PHRASES | PROTECTIVE CLOTHING |
|---|---|---|
| | Combustible material; avoid heat and sources of ignition. | |

## Section I. Chemical Product and Company Identification

Chemical Name: **Methyl Hexanoate [Standard Material]**

| | |
|---|---|
| Catalog Number | S0304 |
| Synonym | Hexanoic acid, methyl ester (CA INDEX NAME); Hexanoic Acid Methyl Ester |
| Chemical Formula | $C_7H_{14}O_2$ |
| CAS Number | 106-70-7 |

Supplier: TCI America
9211 N. Harborgate St.
Portland OR
1-800-423-8616

In case of Emergency Call: **Chemtrec®**
**(800) 424-9300 (U.S.)**
**(703) 527-3887 (International)**

## Section II. Composition and Information on Ingredients

| Chemical Name | CAS Number | Percent (%) | TLV/PEL | Toxicology Data |
|---|---|---|---|---|
| Methyl Hexanoate [Standard Material] | 106-70-7 | Not available. | Not available. | Rat $LD_{50}$ (oral) >5 gm/kg<br>Guinea Pig $LD_{50}$ (dermal) >5 gm/kg<br>Mouse $LD_{50}$ (inhalation) 14 gm/$m^3$ /2H |

## Section III. Hazards Identification

**Acute Health Effects**

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

**Chronic Health Effects**

**CARCINOGENIC EFFECTS** : Not available.
**MUTAGENIC EFFECTS** : Not available.
**TERATOGENIC EFFECTS** : Not available.
**DEVELOPMENTAL TOXICITY**: Not available.
Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

## Section IV. First Aid Measures

**Eye Contact**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact**

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Inhalation**

If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.

**Ingestion**

INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

## Section V. Fire and Explosion Data

| | | | |
|---|---|---|---|
| Flammability | Combustible. | Auto-Ignition | Not available. |
| Flash Points | 46℃ (114.8℉). | Flammable Limits | Not available. |

**Combustion Products**

These products are toxic carbon oxides (CO, $CO_2$).

**Fire Hazards**

Not available.

**Explosion Hazards**

Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions**

Flammable liquid.
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Consult with local fire authorities before attempting large scale fire-fighting operations.

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**Emergency phone number (800) 424-9300**

## Section VI. Accidental Release Measures

**Spill Cleanup Instructions**

Combustible material.
Keep away from heat. Mechanical exhaust required. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Consult federal, state, and/or local authorities for assistance on disposal.

## Section VII. Handling and Storage

**Handling and Storage Information**

COMBUSTIBLE. Keep away from heat. Mechanical exhaust required. Avoid excessive heat and light. Do not breathe gas/fumes/ vapor/spray.
Always store away from incompatible compounds such as oxidizing agents, acids.

## Section VIII. Exposure Controls/Personal Protection

**Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

**Personal Protection**

Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

**Exposure Limits**

Not available.

## Section IX. Physical and Chemical Properties

| | | | |
|---|---|---|---|
| Physical state @ 20°C | Liquid. (Clear, colorless.) | Solubility | Not miscible with water. |
| Specific Gravity | 0.88 (water=1) | | |
| Molecular Weight | 130.18 | Partition Coefficient | Not available. |
| Boiling Point | 150°C (302°F) | Vapor Pressure | Not available. |
| Melting Point | -71°C (-95.8°F) | Vapor Density | Not available. |
| Refractive Index | 1.4040 - 1.4070 | Volatility | Not available. |
| Critical Temperature | Not available. | Odor | Not available. |
| Viscosity | Not available. | Taste | Not available. |

## Section X. Stability and Reactivity Data

**Stability**

This material is stable if stored under proper conditions. (See Section VII for instructions)

**Conditions of Instability**

Avoid excessive heat and light.

**Incompatibilities**

Reactive with strong oxidizing agents, acids.

## Section XI. Toxicological Information

**RTECS Number**

MO8401400

**Routes of Exposure**

Eye Contact. Ingestion. Inhalation.

**Toxicity Data**

Rat $LD_{50}$ (oral) >5 gm/kg
Guinea Pig $LD_{50}$ (dermal) >5 gm/kg
Mouse $LD_{50}$ (inhalation) 14 gm/$m^3$/2H

**Chronic Toxic Effects**

**CARCINOGENIC EFFECTS** : Not available.
**MUTAGENIC EFFECTS** : Not available.
**TERATOGENIC EFFECTS** : Not available.
**DEVELOPMENTAL TOXICITY**: Not available.
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**Acute Toxic Effects**

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

## Section XII. Ecological Information

**Ecotoxicity**

Not available.

**Environmental Fate**

Not available.

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## Section XIII. Disposal Considerations

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| Waste Disposal | Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance. |

## Section XIV. Transport Information

| | |
|---|---|
| DOT Classification | DOT CLASS 3: Flammable liquid |
| PIN Number | UN3272 |
| Proper Shipping Name | Esters, n.o.s. |
| Packing Group (PG) | III |
| DOT Pictograms | |

## Section XV. Other Regulatory Information and Pictograms

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|---|---|
| TSCA Chemical Inventory (EPA) | This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list. |
| WHMIS Classification (Canada) | CLASS B-3: Combustible liquid with a flash point between 37.8℃ (100℉) and 93.3℃ (200℉).<br>On DSL. |
| EINECS Number (EEC) | 203-425-1 |
| EEC Risk Statements | R10- Flammable.<br>R18- In use, may form flammable/explosive vapor-air mixture. |
| Japanese Regulatory Data | ENCS No. 2-782 |

## Section XVI. Other Information

**Version 1.0**
**Validated on 8/6/2008.**
**Printed 3/4/2011.**

**Notice to Reader**

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.