

Material Safety Data Sheet

| HAZARD WARNINGS | RISK PHRASES | PROTECTIVE CLOTHING |
|-----------------|--|---|
| | The health risks of this compound have not been fully determined. Exposure may cause irritation of the skin, eyes, and respiratory system. |    |

Section I. Chemical Product and Company Identification

| | | | |
|------------------|---|---------------------------------|---|
| Chemical Name | Lauric Acid Methyl Ester | | |
| Catalog Number | L0015 | Supplier | TCI America 9211 N. Harborgate St. Portland OR 1-800-423-8616 |
| Synonym | Methyl Laurate | | |
| Chemical Formula | CH ₃ (CH ₂) ₁₀ COOCH ₃ | | |
| CAS Number | 111-82-0 | 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 |
|--------------------------|------------|-------------------|----------------|--|
| Lauric Acid Methyl Ester | 111-82-0 | Min. 98.0 (GC) | Not available. | Mouse LD ₅₀ (intravenous) 48mg/kg |

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. Toxicity to the reproductive system: Not available. There is no known effect from chronic exposure to this product. 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. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively. |
| Skin Contact | If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing. |
| Inhalation | If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively. |
| Ingestion | Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek medical attention. Treat symptomatically and supportively. |

Section V. Fire and Explosion Data

| | | | |
|--------------------------------------|---|------------------|----------------|
| Flammability | Combustible. | Auto-Ignition | Not available. |
| Flash Points | 125°C (257°F) | Flammable Limits | Not available. |
| Combustion Products | These products are toxic carbon oxides (CO, CO ₂). | | |
| Fire Hazards | No specific information is available regarding the flammability of this compound in the presence of various materials. | | |
| 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. No additional information is available regarding the risks of explosion. | | |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemicals, CO ₂ , water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. | | |

Continued on Next Page

Emergency phone number (800) 424-9300

Section VI. Accidental Release Measures

| | |
|----------------------------|--|
| Spill Cleanup Instructions | Combustible material. Keep away from heat and sources of ignition. Mechanical exhaust required. Stop leak if without risk. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. |
|----------------------------|--|

Section VII. Handling and Storage

| | |
|----------------------------------|---|
| Handling and Storage Information | Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe gas, fumes, vapor or spray. If you feel unwell, seek medical attention and show the label when possible. Treat symptomatically and supportively. Avoid contact with skin and eyes. Always store away from incompatible compounds such as oxidizing agents, alkalis (bases). |
|----------------------------------|---|

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. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |
|---------------------|--|



| | |
|-----------------|----------------|
| Exposure Limits | Not available. |
|-----------------|----------------|

Section IX. Physical and Chemical Properties

| | | | |
|-----------------------|-----------------|-----------------------|---|
| Physical state @ 20°C | Liquid. | Solubility | Not available. |
| Specific Gravity | 0.87 | | |
| Molecular Weight | 214.35 | Partition Coefficient | Not available. |
| Boiling Point | 262°C (503.6°F) | Vapor Pressure | Not available. |
| Melting Point | 5°C (41°F) | Vapor Density | Not available. |
| Refractive Index | Not available. | Volatility | Not available. |
| Critical Temperature | Not available. | Odor | Fatty, floral odor reminiscent of wine. |
| Viscosity | Not available. | Taste | Fatty taste |

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, alkalis (bases). |
|-------------------|---|

Section XI. Toxicological Information

| | |
|--------------|-----------|
| RTECS Number | OF6700000 |
|--------------|-----------|

| | |
|--------------------|------------------------|
| Routes of Exposure | Ingestion. Inhalation. |
|--------------------|------------------------|

| | |
|---------------|--|
| Toxicity Data | Mouse LD ₅₀ (intravenous) 48mg/kg LD ₅₀ (intravenous) 48mg/kg |
|---------------|--|

| | |
|-----------------------|---|
| Chronic Toxic Effects | CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. Toxicity to the reproductive system: Not available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions. |
|-----------------------|---|

| | |
|---------------------|---|
| 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. |

Section XIII. Disposal Considerations

| | |
|----------------|--|
| Waste Disposal | Recycle to process, if possible. Consult your local or 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 this substance. |
|----------------|--|

Section XIV. Transport Information

| | |
|----------------------|---|
| DOT Classification | Not a DOT controlled material (United States). |
| PIN Number | NONE |
| Proper Shipping Name | NONE |
| Packing Group (PG) | NONE |
| DOT Pictograms |  |

Section XV. Other Regulatory Information and Pictograms

| | |
|-------------------------------|--|
| TSCA Chemical Inventory (EPA) | This product is ON the EPA Toxic Substances Control Act (TSCA) inventory. |
| WHMIS Classification (Canada) | Not controlled under WHMIS (Canada). |
| EINECS Number (EEC) | 203-911-3 |
| EEC Risk Statements | Not controlled under DSCL (Europe). |
| Japanese Regulatory Data | Not available. |

Section XVI. Other Information

Version 1.0
Validated on 2/23/2005.
Printed 2/23/2005.

Notice to Reader

TCl 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.