

## 1. Identification

**Name** Isopropyl myristate

**CAS Number** 110-27-0

### Recommendation for the chemical and restrictions on use

**Applications** Research and development/Performance chemical/ Industrial solvent.

**Restrictions** No specific uses advised against are identified.

### Supplier's Details

**InKemia Green Chemicals, Inc.**

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+1 (713) 909-7717

web@inkemiagreenchemicals.com

### Emergency contact number

**InKemia Green Chemicals, Inc.**

Tel: +1 (713) 909-7717

For emergency calls only.

## 2. Hazards

### Classification of the substance or mixture

**Classification** Not classified as a hazardous product.

### Label elements

**GHS label statements, including pictograms, hazard, and precautionary statements.**

The product does not need to be labeled. The product is not classified as a hazardous substance or mixture according to 29 CFR 1910 (OSHA HCS).

**Signal word**

—

**Other Hazards** No data available.

## 3 - Composition/information on ingredients

### Substances

**Chemical Name** Isopropyl myristate

**Synonyms** Isopropyl tetradecanoate; Tetradecanoic acid, 1-methylethyl ester.

**CAS Number** 110-27-0

# SDS: Isopropyl myristate

**Molecular Formula** C17H34O2  
**Molecular Weight (g/mol)** 270.451

**Hazardous components**

Component	Classification	Concentration
Isopropyl myristate	...	<=100 wt.%

Note: For the full text of the H-Statements mentioned in this Section, see Section 16.

**Impurities and stabilizing additives** No data available.

**Mixtures** Not applicable.

## 4 - First-aid measures

**Description of first aid measures**

**General information** No applicable data available.

**Inhalation** If breathed in, move person into fresh air.If symptoms persist, call a physician.

**Ingestion** If large quantities of this material are swallowed, call a physician immediately.

**Skin contact** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

**Eye contact** Immediately irrigate with copious amounts of water for 15 minutes. Consult a physician.

**Protection of first-aiders** No applicable data available.

**Most important symptoms and effects, both acute and delayed**

**General information** No applicable data available.

**Inhalation** No hazards which require special first aid measure.

**Ingestion** No hazards which require special first aid measure.

**Skin contact** No hazards which require special first aid measure.

**Eye contact** No hazards which require special first aid measure.

**Indication of immediate medical attention and special treatment need**

**Notes for the doctor** No applicable data available.

**5 - Fire-fighting measure**

**Extinguishing media**

**Suitable extinguisher media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguisher media** High volume water jet.

**Special hazards arising from the substance of mixture**

**Specific hazards** No data available.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**Advice for firefighters**

**Protective actions during firefighting**

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control runoff water by containing and keeping it out of sewers and watercourses. If the risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighting**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots, and gloves provide a basic level of protection for chemical incidents.

**6 - Accidental release measures**

**Personal precautions, protective equipment, and emergency procedures**

**Personal Precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into the spilled material.

**Environmental precautions**

**Environmental precautions**

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

## **Methods and materials for containment and cleanup**

### **Methods for cleaning**

Contain and remove the spillage, soaking up the residue with non-flammable absorbent. Place in an adequate container for immediate disposal. Eliminate sources of ignition. For waste disposal see Section 13.

### **Reference to other sections**

For personal protection see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For disposal see section 13.

## **7 - Handling and storage**

### **Precautions for safe handling**

#### **Usage precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feeding stuff. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. For precautions see Section 2.

#### **Advice on general occupational hygiene**

Wash if in contact with skin. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

### **Conditions for safe storage, including any Incompatibilities**

#### **Storage precautions**

Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well-ventilated place. Keep containers upright. Protect containers from damage. Keep in a fresh and dry place, avoiding direct sunlight. Keep container tightly sealed, in a fireproof place.

#### **Storage class**

Miscellaneous hazardous material storage. Preferably in a well-ventilated solvent cabinet.

#### **Specific end uses**

The identified uses for this product are in Section 1.

## **8 - Exposure controls/personal protection**

### **Control parameters**

## **Occupational exposure limits:**

### **OSHA Permissible Exposure Limit (PEL):**

Contains no substances with occupational exposure limit values.

## **Protective equipment**



## **Engineering control measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

## **Eye/Face protection**

Wear safety glasses with side-shields.

## **Hand protection**

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

## **Other skin and body protection**

Where risk assessment shows use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

## **Hygiene measures**

Wash hands before and use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with a 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).

## **Environmental exposure**

Not available.

**9 - Physical and chemical properties**

<b>Appearance</b>	Clear colorless liquid.	<b>Water miscibility @ 20 °C, g/L</b>	Immiscible
<b>Odor threshold</b>	No data available.	<b>Solubility (other)</b>	Miscible with ethers, very miscible in acetone, hydrocarbons, mineral and natural oils.
<b>Melting point/Freezing point, °C</b>	3	<b>Partition coefficient, log Pow @ 25 °C</b>	6.885
<b>Boiling point, °C</b>	316	<b>Autoignition temperature, °C</b>	Higher than 350
<b>Flash point</b>	165	<b>Decomposition temperature, °C</b>	No data available.
<b>Evaporation rate</b>	No data available.	<b>Dynamic viscosity @ 25 °C, cP</b>	6 @ 20 °C
<b>Upper / lower flammability or/and explosive limits</b>	No data available.	<b>Explosive properties</b>	Not classified.
<b>Vapor pressure @ 20 °C, kPa</b>	0.000013	<b>Oxidizing properties</b>	No data available.
<b>Vapor density (air=1)</b>	No data available.	<b>Flammability</b>	Non-flammable liquid.
<b>Relative density @ 25 °C, g/cm<sup>3</sup></b>	0.853	<b>Surface tension @ 20 °C, mN/m</b>	29.7

**10 - Stability and reactivity**

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization do not occur under normal conditions.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong bases. Strong acids.
<b>Conditions to avoid</b>	High temperatures and ignition sources.
<b>Hazardous decomposition products</b>	No data available.

**11 - Toxicological information**

**Acute toxicity - oral**

**Acute toxicity - oral (LD50,mg/kg)** 14,400 (OECD Test Guideline 401)

<b>Species</b>	Rat
<b>Notes (oral LD50)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity - dermal (LD50,mg/kg)</b>	5,000
<b>Species</b>	Rabbit
<b>Notes (Dermal LD50)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity - inhalation (LC50,dust/mist mg/l)</b>	> 5.3 (4 h., dust/mist, OECD Test Guideline 436).
<b>Species</b>	No data available
<b>Notes (Inhalation LD50)</b>	Based on available data the classification criteria are not met.
<b>ATE inhalation (Dust/mists mg/l)</b>	Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Result</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Result</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitization</u></b>	
<b>Result</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitization</u></b>	
<b>Result</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Animal testing did not show any mutagenic effects.
<b><u>Carcinogenicity</u></b>	
<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as human carcinogen by IARC.
<b>ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b><u>Reproductive toxicity</u></b>	
<b>Fertility</b>	No toxicity to reproduction (Rat, 6,000 mg/kg, oral ).

<b>Development</b>	No toxicity to reproduction (Rat, 1,000 mg/kg, oral, OECD Test Guideline 414).
<b><u>Specific target organ toxicity</u></b>	
<b>STOT-single exposure</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Additional information</u></b>	
<b>General information</b>	This product is not classified as hazardous.
<b>Inhalation</b>	No aspiration toxicity classification.
<b>Ingestion</b>	Based on available data the classification criteria are not met.
<b>Skin contact</b>	Based on available data the classification criteria are not met.
<b>Eye contact</b>	Based on available data the classification criteria are not met.
<b>Route of entry</b>	Ingestion, Inhalation, skin and/or eye contact.
<b>Target organs</b>	Not specific target organ known.

**12 - Ecological information**

**Toxicity**

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have dangerous effects on the environment.

***Acute toxicity***

**Toxicity to fish** No data available.

**Aquatic invertebrates** No data available.

**Aquatic plants** No data available.

***Chronic toxicity***

**Toxicity to fish** No data available.

**Aquatic invertebrates** No data available.

**Aquatic plants** No data available.

**Persistency and biodegradability**

**Persistency and biodegradability** Readily biodegradable (91.4 wt% (28 days), OECD Test Guideline 301B).

Result: -	Readily biodegradable.  This product is readily biodegradable (EPI Suite Estimation).
<b>Biological oxygen demand(mg/g)</b>	No data available.
<b>Chemical oxygen demand(mg/g)</b>	No data available.
<b>BOD/COD ratio</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Results of PBT and vPvB</b>	No data available.
<b>Other adverse effects</b>	No data available.

**13 - Disposal considerations**

**Waste treatment methods**

**General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of safely. When handling waste, the safety precautions applying to the handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues.

**Disposal methods**

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration and landfill should only be considered when recycling is not feasible.

**14 - Transport information**

<b>DOT (US)</b>	Not dangerous goods.
<b>IMDG</b>	Not dangerous goods.
<b>IATA</b>	Not dangerous goods.
<b>Transport in bulk according to</b>	Annex II of MARPOL 73/78, and the IBC Code Not applicable.

**15 - Regulatory information**

**US Federal Regulations and state regulations**

Components of the product are listed in the quoted regulations. For details, please refer to the regulations directly. This list is not exhaustive; please check for other applicable regulations.

**This product has been classified by hazard criteria of the Controlled Products Regulations, and the SDS contains all the information required by the Controlled Products Regulations.**

#### **US Federal Regulations**

##### **SARA 302 Section 302 (Specific toxic chemical listings)**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### **SARA Section 311/312 (Specific toxic chemical listings)**

No SARA Hazards.

##### **SARA Section 313 (Specific toxic chemical listings)**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### **RCRA (hazardous waste code)**

None of the ingredients are listed.

##### **TSCA (Toxic Substances Control Act)**

CAS 110-27-0 is listed on the TSCA inventory.

##### **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

None of the ingredients are listed.

#### **US State Regulations**

##### **Proposition 65 (California)**

##### **Chemicals are known to cause cancer**

None of the chemicals in this product are listed.

##### **Chemicals are known to cause reproductive toxicity for females**

None of the chemicals in this product are listed.

##### **Chemicals are known to cause reproductive toxicity for males**

None of the chemicals in this product are listed.

##### **Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

##### **Pennsylvania Right to Know Components**

Isopropyl myristate CAS: 110-27-0

##### **New Jersey Right to Know Components**

Isopropyl myristate CAS: 110-27-0

#### **Canada**

##### **Canadian Domestic Substances List (DSL)**

CAS: 110-27-0 is listed on Canada's DSL List.

##### **Canadian NPRI Ingredient Disclosure list (limit 0.1%)**

The substance is not specified on any list. There is no control measure imposed to this substance.

##### **Canadian NPRI Ingredient Disclosure list (limit 1%)**

The substance is not specified on any list. There is no control measure imposed to this substance.

## 16 - Other information

### Full text of H-Statements referred to under sections 2 and 3

Not a hazardous substance or mixture.

### GHS Column Model 2017 Classification

**Acute health hazards (single exp)** Negligible

**Chronic health hazards (repeated exp.)** Negligible

**Environmental hazards** Negligible

**Physical-chemical hazards** Negligible

### Further Information

The information above is believed to be accurate and represents the best information available. However, we make no warranty of merchantability or any other warranty, express or implied, on such information and we assume no liability resulting from its use. Users should make their investigations to determine the suitability of the information for their purposes. In no event shall the InKemia Green Chemicals, Inc. be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages arising, even if the InKemia Green Chemicals, Inc. has been advised of the possibility of such damages.

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