



Specialized in chemicals

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Material Safety Data Sheet

Isopropyl Myristate

Section 1: Chemical Product and Company Identification

MSDS Name: Isopropyl Myristate

Synonyms: 1-Tridecanecarboxylic Acid, Isopropyl Ester; Isopropyl Tetradecanoate;

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	By Weight%
Isopropyl myristate	110-27-0	98%

Section 3: Hazards Identification

Appearance: clear, colorless Liquid.

Warning! Irritant. Causes eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. Can produce delayed pulmonary edema.

Chronic: Effects may be delayed.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH(approved or equivalent),and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: >110deg C(>230.00deg f)

Auto ignition Temperature: Not available.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 2; **Flammability:** 1; **Instability:** 0

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in section 8.
Spills/Leaks: Absorb spill With inert material (e.g. vermiculite, sand or earth),then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the precautions in the protective Equipment section. Provide ventilation.

Section7: Handling and storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.
Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances

Section 8: Exposure controls/personal protection

Engineering Controls: facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA – Final PELS
Isopropyl Microstate	none listed	none listed	none listed

OSHA Vacated PELs: Isopropyl Microstate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’ s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and A's SI conditions warrant a respirator's use

Section 9: Physical and chemical properties

Physical State: Liquid
Appearance: clear, colorless
Odor: Not available.
PH: Not available.
Vapor Pressure: not available.
Vapor Density: 9.32
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 167 deg C@ 9.00mm Hg
Freezing/Melting Point: Not available.
Decomposition Temperature: Not available.
Solubility: Not available.
Specific Gravity/Density: 8530g/cm³
Molecular Formula: C₁₇H₃₄O₂
Molecular Weight: 270.45

Section 10: Stability and reactivity

Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, excess, heat, strong oxidants.

Incompatibilities with Other Materials: Oxidizing agents.

Hazardous Decomposition Products: carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

Section 11: Toxicological information

RTECS#:
CAS#110-27-0:XB8600000
LD50/LC50:
CAS#110-27-0:
Draize test, rabbit, skin: 426 mg/24H Mild;
Draize test, rabbit, skin: 100 mg/24H severe;
Oral, mouse: LD50 = 49700 mg/kg;

Skin, rabbit: LD50 = 5 gm/kg; <BR.

Carcinogenicity:

CAS# 110-27-0:Not listed by ACGIG, IARC, NTP, or CA Prop 65.

Epidemiology: No information found.

Teratogenicity: No information found.

Reproductive Effects: No information found.

Mutagenicity: No information found.

Neurotoxicity: No information found.

Other Studies:

Section 12: Ecological information

Ecotoxicity: No data available. No information available.

Environmental: Terrestrial: Expected to be immobile in soil. Volatilization from moist soil is expected to be an important fate process. However, adsorption is expected to attenuate volatilization. Not expected to volatilize from dry soil. Aquatic: Adsorbs to suspended solids and sediments. Volatilization is expected to occur. However, evaporation is expected to be attenuated by adsorption. Atmospheric. Exists in both vapor and particulate phases. Vapors are degraded by photochemically produced hydroxy radicals with a half-life of about 20hrs. Particulates are removed by both wet and dry deposition.

Physical: No information available.

Other: No information available.

Section 13: Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport information

	US DOT	Canada TDG
Shipping Name:	Please contact Fisher Scientific for shipping information	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15: Regulatory information

Healthy & Safety Reporting List
 None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
 None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
 None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
 None of the chemicals in this material have a SNUR under a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
 None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances
 None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:
 This material does not contain any hazardous air pollutants.
 This material does not contain any Class 1 Ozone depletors.
 This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
 None of the chemicals in this product are listed as Hazardous Substances under the CWA.
 None of the chemicals in this product are listed as priority Pollutants under the CWA.
 None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
 None of the chemicals in this product are considered highly hazardous by OSHA.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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