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1. Identification

Name Methyl oleate

CAS Number 112-62-9

Recommendation for the chemical and restrictions on use

Applications Research and development/Performance chemical/ Industrial

solvent.

Restricions No specific uses advised against are identified.

Supplier's Details

InKemia Green Chemicals, Inc.

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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 Eye irritation (Category 2A), H319.

Label elements

Pictogram



Signal word

Warning

Hazard Statements H319 - Causes serious eye irritation.

Precautionary Statements P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

Other Hazards None



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3 - Composition/information on ingredients

Substances

Chemical Name Methyl oleate

Synonyms Oleic acid methyl ester; Methyl (Z)-9-octadecenoate; Oleic acid,

methyl ester; Methyl cis-9-octadecenoate.

CAS Number 112-62-9

Molecular Formula C19H36O2

Molecular Weight (g/mol) 296.495

Hazardous components

Component	Classification	Concentration
Methyl oleate	Eye Irrit. 2A; H319.	

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 Get medical attention if any discomfort continues. Show this

Safety Data Sheet to the medical personnel.

Inhalation Remove from exposure, moving to fresh air. Artificial respiration

and oxygen are necessary if not breathing. Consult a physician.

Ingestion Wash out mouth with water if the person is conscious. Do not

induce vomiting. Consult a physician.

Skin contact Immediately wash skin with soap and copious amounts of water.

Eye contact Immediately irrigate with copious amounts of water for 15

minutes. Consult a physician.

Protection of first-aiders First aid personnel should wear appropriate protective equipment

during any rescue.

Most important symptoms and effects, both acute and delayed



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General information The severity of the symptoms described might vary depending on

the concentration and length of exposure.

Inhalation No hazard expected under normal use.

Ingestion Slightly dangerous.

Skin contact May cause irritation.

Eye contact Causes irritation.

Indication of immediate medical attention and special treatment need

Notes for the doctor Treat symptomatically.

5 - Fire-fighting measure

Extinguishing media

Suitable extinguisher media Dry chemical, carbon dioxide or water fog. Do not use water directly

on the fire.

Unsuitable extinguisher mediaNo data available.

Special hazards arising from the substance of mixture

Specific hazards Keep away from sources of ignition (heat, sparks, flames, static

electricity, pilot lights, and mechanical/electrical equipment). Violent steam generation or eruption may occur upon application of direct

water stream to hot liquids.

Hazardous combustion productsThermal 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



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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

Promptly 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.



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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:

Contains no substances with occupational exposure limit values.

Protective equipment



Engineering control measures

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

Avoid skin contact. Wear protective clothes and solvent resistant gloves (nitrile).

Other skin and body protection

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





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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

Do not empty into drains.

9 – Physical and chemical properties				
Appearance	Colorless to amber clear liquid.	Water miscibility @ 20 °C, g/L	Immiscible.	
Odor threshold	No data available.			
Melting point/Freezing point, °C	-19.9	Solubility (other)	Miscible with hydrocarbons, ethyl alcohol, diethyl ether and chloroform.	
•		Partition	7.45	
Boiling point, °C	218.5	coefficient, log Pow		
Flash point	113.0	@ 25 °C		
Evaporation rate	No data available.	Autoignition temperature, °C	No data available.	
Upper / lower flammability or/and explosive limits	No data available.	Decomposition temperature, °C	No data available.	
Vapor pressure @ 20 °C, kPa	1.3	Dynamic viscosity @ 25 °C, cP	1.64 @ 30 °C	
Vapor density (air=1)	No data available.	Explosive properties	Not classified.	
		Oxidizing properties	No data available.	
Relative density @ 25 °C, g/cm³	0.874	Flammability	Non-flammable liquid.	
		Surface tension @ 20 °C, mN/m	31.3 2 @ 25 °C (lit.)	

10 - Stability and reactivity

Reactivity Sensitivity to light. Air sensitive.

Chemical stability Stable under normal storage conditions.

Possibility of hazardous reactions Hazardous polymerization do not occur under normal conditions.

Incompatible materials Strong oxidizing agents. Strong bases. Strong acids. Exposure to air.

Exposure to light.



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Conditions to avoid Excess heat. Ignition sources.

Hazardous decomposition productsNo data available.

11 - Toxicological information

Acute toxicity – oral

Acute toxicity - oral (LD50,mg/kg) >2,000

Species Rat

Notes (oral LD50)Based on available data the classification criteria are not met.

Acute toxicity - dermal

Acute toxicity - dermal (LD50,mg/kg) >5,000

Species Rabbit

Notes (Dermal LD50)Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity – inhalation (LC50,dust/mist

mg/l)

No data available.

Notes (Inhalation LD50) No deaths occurred at this concentration/Based on the available

data, respiratory irritation was not observed.

Skin corrosion/irritation

ResultBased on available data the classification criteria are not met.

Serious eye damage/irritation

Result Irritating to eyes.

Respiratory sensitization

Result Based on available data the classification criteria are not met.

Skin sensitization

Result In some cases it may cause allergic reaction.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

IARC No component of this product present at levels greater than or equal

to 0.1% is identified as human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal

to 0.1% is identified as a carcinogen or potential carcinogen by ACGI

NTP 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.

OSHANo component of this product present at levels greater than or equal

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to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

Reproductive toxicity

Fertility Based on available data the classification criteria are not met.

DevelopmentBased on available data the classification criteria are not met.

Specific target organ toxicity

STOT-single exposure No data available.

STOT-repeated exposure No data available.

Additional information

General information This product is classified as eye irritant.

Inhalation No data available.

Ingestion No data available.

Skin contact It may cause mild skin irritantation.

Eye contact Eye irritant.

Route of entry Ingestion, Inhalation, skin and/or eye contact.

Target organs Not specific target organ known.

12 - Ecological information

Toxicity

Ecotoxicity Large or frequent spills may have dangerous effects on the

environment. Do not empty into drains.

Acute toxicity

Toxicity to fish No data available.

Aquatic invertebrates No data available.

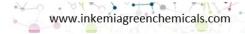
Microorganisms No data available.

Persistency and biodegradability

Persistency and biodegradability No data available.

Result: - Expected to biodegrade under both aerobic and anaerobic

conditions. (EPI Suite estimation).



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Biodegradation Insoluble in water. It may persist in the environment.

Biological oxygen demand(mg/g)No data available.

Chemical oxygen demand(mg/g) No data available.

BOD/COD ratio No data available.

Bioaccumulative potential Unlikely to bioaccumulate (BCF<500).

Mobility in soil Is not likely mobile in the environment due its low water solubility.

Results of PBT and vPvBNo data available.

Other adverse effects 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

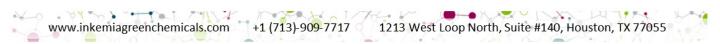
DOT (US)Not classified as hazardous goods.IMDGNot classified as hazardous goods.IATANot classified as hazardous goods.

Transport in bulk according toAnnex II of MARPOL 73/78, and the IBC Code:

Not applicable.

15 - Regulatory information

US Federal Regulations and state regulations





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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: 112-62-9 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

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

New Jersey Right to Know Components

No components are subject to the New Jersey Right to Know Act.

Rhode Island Right to Know Components

Methyl oleate CAS: 112-62-9

Canada

Canadian Domestic Substances List (DSL)

CAS: 112-62-9 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.

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16 - Other information

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

H319 Causes eye irritation. Eye Irrit. Eye Irritant.

GHS Column Model 2017 Classification

Acute health hazards (single exp) Low

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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