

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.28.2016

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Revision date: 04.12.2018

Methyl Soyate

SECTION 1: Identification

Product identifier

Product name: Methyl Soyate

Synonyms: Soybean oil methyl ester, biodiesel

Product code: 100088935, 100089121, 100089118



Recommended use of the product and restriction on use

Relevant identified uses: Biosolvent, industrial use, not for fuel use.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Cargill, Incorporated

Cargill Industrial Specialties

13400 15th Avenue North

Plymouth, MN 55441

1-800-842-3631, 1-952-984-9122

CIS_CustomerService@Cargill.com

Emergency telephone number:

United States

ChemTel Inc

North America: 1-800-255-3924

International: 01-813-248-0585

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 67784-80-9	Soybean oil, methyl ester	>99

Additional information:

*This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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SECTION 4: First aid measures

Description of first aid measures

General notes:

If potential for exposure exists refer to Section 8 for specific personal protective equipment

After inhalation:

If inhaled, remove to fresh air
Get medical advice if you feel unwell

After skin contact:

Wash with plenty of water / soap and rinse thoroughly
Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse cautiously with water for several minutes
Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

After swallowing:

Rinse mouth and do not induce vomiting
Get medical advice if you feel unwell or concerned

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

May cause minimal irritation or no effect
Any additional important symptoms and effects are described in Section 11: Toxicological Information

Delayed symptoms and effects:

Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash)

Immediate medical attention and special treatment

Specific treatment:

Preexisting skin conditions may be aggravated by exposure to this product
If a large amount of product is ingested, i.e. several ounces, effects may be delayed. Seek immediate medical attention

Notes for the doctor:

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. If a large amount of product is ingested, the metabolism of fatty acid methyl esters may release free methanol in the body. Consult standard literature or contact a poison control center for treatment details

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher. May spread fire

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

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Special precautions:

This product is not a flammable liquid per the UN GHS classification, but may ignite and/or burn at temperatures exceeding the flash point
Rags, steel wool, or waste contaminated with this product may spontaneously catch fire if improperly discarded
Evacuate area. Shut off sources of ignition. Heating causes a rise in pressure, risk of bursting and combustion. Water may be used to cool and protect containers. Fight fire from a safe distance, and keep upwind

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate area. Use appropriate personal protective equipment (see Section 8). Stop or contain leak at the source and remove sources of ignition, if safe to do so. Ventilate area of leak or spill. Keep upwind of spill
Spilled material may cause a slipping hazard. Use appropriate safety equipment

Environmental precautions:

Should not be released into the environment
Prevent entry into sewers, water courses, basements or confined areas

Methods and material for containment and cleaning up:

Small spills: Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders). Remove with shovel. Collect in suitable and properly labeled containers
Large spills: Dike area to contain spill. Knock down and dilute vapors with water fog or spray. Collect with vacuum equipment or inert materials. Approach release upwind
Used rags or other cleaning materials should be soaked with water and placed in a sealed container to prevent spontaneous combustion
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Sections 8 and 13

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8).
Avoid breathing mist or vapor. Use with adequate ventilation. Avoid repeated and prolonged skin contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
Surfaces of porous or fibrous materials saturated with oils can self-heat and auto ignite. Avoid contamination of thermal insulation materials and the accumulation of oily rags or similar material near hot surfaces. Non-absorbent insulation such as foam glass is recommended for tankage and piping
Immediately after use, place rags, steel wool, or waste in a sealed water-filled metal container.

Conditions for safe storage, including any incompatibilities:

Avoid storage near extreme heat, ignition sources or open flame. Protect from light.
Store in a cool, well-ventilated area. Keep container tightly sealed.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

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Information on monitoring procedures:

Monitoring procedures should be chosen according to the indications set by national authorities or recognized standards.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Use of local exhaust ventilation should be determined based on operations and if vapors or mist can be generated from heating or spray applications.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear protective clothing as necessary to minimize prolonged skin contact. Selection of specific items will depend on task

Respiratory protection:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators:
Organic vapor cartridge with a particulate pre-filter.

General hygienic measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Pale yellow liquid
Odor	Mild
Odor threshold	Not applicable.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>200°C (392°F)
Flash point (closed cup)	130°C (266°F)
Evaporation rate	< 1 (Compared to Butyl acetate)
Flammability (solid, gas)	Not applicable.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	2 mmHg (20°C)
Vapor density	>1
Density	0.8815 (20°C)
Relative density	Not determined or not available.

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Solubilities	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Excessive heat. Avoid temperatures exceeding the flash point.

Incompatible materials:

Strong oxidizing agents.

Strong alkali.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Route	Result
Oral	LD50 >5000 mg/kg bw (rat, male/female)(similar substance)
Dermal	LD50 >2000 mg/kg bw (rabbit)(similar substance)
Inhalation	Acute inhalation toxicity data not available. At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

Based on data for similar materials may be slightly irritating, but not sufficient for classification

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

Based on data for similar materials may be slightly irritating, but not sufficient for classification

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Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not expected to be a skin sensitizer based on animal data for similar substances.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not expected to be a germ cell mutagen. In vitro and in vivo tests did not show mutagenic effects using similar substance.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not expected to be toxic to reproductive or developmental based on testing in rats for similar substances.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not expected to cause organ damage from a single exposure based on acute toxicity data for similar substances.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not expected to cause organ damage from prolonged or repeated exposure based on animal studies for similar substances.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Repeated or prolonged skin contact may cause defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Eye contact may cause temporary redness, tearing, or blurred vision.

Excessive inhalation of vapor or mist from heated materials or spraying applications may cause irritation to

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nose, throat, and mucous membrane, dizziness and nausea. If ingested, may cause gastrointestinal upset with possible nausea, vomiting and diarrhea.

Other information:

If a large amount of product is ingested, symptoms may include central nervous system depression including sleepiness, dizziness, headache, nausea, shortness of breath. Seek medical attention immediately.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data:

Expected to be readily biodegradable.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None

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Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA): All Ingredients are listed

Significant New Use Rule (TSCA Section 5): Not listed.

Export notification under TSCA Section 12(b): Not listed.

SARA Section 302 extremely hazardous substances: Not listed.

SARA Section 313 toxic chemicals: Not listed.

CERCLA: Not listed.

RCRA: See Section 13.

Section 112(r) of the Clean Air Act (CAA): Not listed.

Massachusetts Right to Know: Not determined.

New Jersey Right to Know: Not listed.

New York Right to Know: Not listed.

Pennsylvania Right to Know: Not listed.

California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

67-56-1	Methanol
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SECTION 16: Other information

Abbreviations and Acronyms: None

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End of Safety Data Sheet