

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	CE-899 Kosher
Manufacturer	The Procter & Gamble Company Procter & Gamble Chemicals Sharon Woods Innovation Center 11530 Reed Hartman Highway Cincinnati, Ohio 45241 1-800-477-8899 or 1-513-626-6882 PGChemMSDS.IM@pg.com CHEMTREC: 1-800-424-9300 U.S. and Canada CHEMTREC: 1-703-527-3887 For calls originating elsewhere
Version #	04
Revision date	10-21-2010
CAS #	111-11-5
MSDS Number	ME550
Product Code	95951123
Product use	Production of polyol esters, MCT, agricultural adjuvants/amides, and amines.
Synonym(s)	METHYL CAPRYLATE * METHYL OCTANOATE

2. Hazards Identification

Emergency overview	CAUTION! Causes skin and eye irritation. Combustible liquid and vapor. Combustible liquid and vapor may be ignited by heat, sparks, or open flames. Containers may explode when heated. Vapors may travel to source of ignition and flash back. If product is heated, vaporization can occur. Eye, skin, and upper respiratory irritation can occur.
Potential health effects	
Eyes	May cause minor to moderate irritation.
Skin	Mild, primary skin irritation with prolonged or repeated contact.
Inhalation	No harmful effects expected with normal use. Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Ingestion	May cause irritation of the gastrointestinal tract.
Potential environmental effects	Not known.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Octanoic acid, methyl ester	111-11-5	99-100

4. First Aid Measures

First aid procedures	
Eye contact	Flush thoroughly with water for at least 15 minutes. Get medical assistance.
Skin contact	Wash the skin immediately with soap and water. Remove contaminated clothing. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Inhalation	Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion

If swallowed, do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions.

5. Fire Fighting Measures**Extinguishing media**

Suitable extinguishing media SMALL FIRES: Use CO2 or dry chemical.
LARGE FIRES: Use foam.

Unsuitable extinguishing media Water may be ineffective.

Protection of firefighters

Specific hazards arising from the chemical Vapors may travel to a source of ignition and flash back.
Carbon monoxide with incomplete combustion.

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective clothing.

Specific methods Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions Wear suitable protective clothing. Wear appropriate personal protective equipment. An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is generated.

Environmental precautions Dike flow of spilled material using soil or sandbags to minimize contamination of drains, surface and ground waters.

Methods for cleaning up Ventilate the area. Eliminate sources of ignition.
Contain spill. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Use clean non-sparking tools to collect absorbed material.

7. Handling and Storage**Handling**

Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin and eyes. Avoid contact with clothing. Wash thoroughly after handling.
Ground and bond containers when transferring material.
Use spark-proof tools and explosion-proof equipment.
Empty containers contain product residue and can be dangerous, follow all hazard warnings and precautions even after container is emptied.
Keep away from sources of ignition.

Storage

Can be stored in most common storage vessels including carbon steel, aluminum, fiberglass and stainless steel.
Keep away from heat, sparks, and flame.
Keep away from possible contact with incompatible substances.
Store in a cool dry place in accordance with 29 CFR 1910-106/NFPA 30.

Specific uses Follow bulk handling and storage procedures as noted above.

8. Exposure Controls / Personal Protection

Engineering controls Local exhaust is recommended.
Mechanical - may be necessary if working at elevated temperatures or in enclosed areas.

Personal protective equipment**General**

Observe good industrial hygiene practices.
Avoid contact with eyes. Avoid contact with skin. Avoid breathing (heated) vapors.

Boots. Apron. Eye wash fountain and emergency showers are recommended. Wear suitable protective clothing.

Eye / face protection

Goggles or face shield with goggles, dependent upon potential exposure.

Skin protection

Nitrile gloves are recommended.
Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.

Respiratory protection

None required for ambient temperature, although an appropriate NIOSH/MSHA approved air-purifying respirator should be used if a mist or vapor is generated. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Environmental exposure controls

Contact Procter and Gamble for specific Community information.

9. Physical & Chemical Properties

Appearance	Not available.
Color	Water white to Yellow
Odor	Musty
Odor threshold	Not available.
Physical state	Liquid.
Form	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	> 350 °F (> 176.7 °C) @ 760 mm Hg (101.3kPa)
Flash point	165 °F (73.9 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	< 1 mm Hg @ 72 F (22 C)
Vapor density	Not available.
Specific gravity	Not available.
Relative density	0.87 @ 25/25 C
Solubility (water)	Negligible @ 72 F (22 C)
Partition coefficient (n-octanol/water)	log Pow ca. 4.41
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Reacts with strong base to produce methanol.
Materials to avoid	Oxidizing agents. Strong bases.
Hazardous decomposition products	Carbon monoxide with incomplete combustion.
Hazardous polymerization	Hazardous polymerization does not occur.

11. Toxicological Information

Further information	(Based on P&G data for related C8-10 methyl ester mixtures.) Acute Oral Toxicity: The acute oral LD50 on rats would be expected to be greater than 23 g/kg of body weight. Eye Irritation: Mild transient eye irritation would be expected with undiluted product in rabbits. Skin Irritation: 24 hour human patch test indicated that undiluted product produced mild irritation. The irritancy was less than the result produced by a 4% aqueous soap solution.
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12. Ecological Information

Aquatic toxicity (Based on P&G data for related C8-10 methyl ester mixtures.)

The 96 hour LC50 for Bluegills would be expected to be greater than 423 mg/l.

Microbiological Inhibition: None at 10,000 mg/l.

13. Disposal Considerations

Disposal instructions Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Do not dispose of via sinks, drains or into the immediate environment.

14. Transport Information

DOT

Basic shipping requirements:

UN number	NA1993
Proper shipping name	Combustible liquid, n.o.s. (METHYL OCTANOATE)
Hazard class	Comb liq
Subsidiary hazard class	None
Packing group	III

Additional information:

Special provisions	IB3, T1, T4, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	241
ERG number	128

15. Regulatory Information

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance	No
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Section 311 hazardous chemical	No
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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Contains no California Prop 65 chemicals.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Contains no Pennsylvania Right To Know hazardous substances

16. Other Information

HMIS® ratings

Health: 0
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 2
Instability: 0

Disclaimer

The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

Issue date

10-21-2010

This data sheet contains changes from the previous version in section(s):

Physical & Chemical Properties: Odor
Physical & Chemical Properties: Color
Transport Information: Product Shipping Name/Packing Group