

SAFETY DATA SHEET

1. Identification

GHS product identifier	CE-1095 Kosher
MSDS Number	ME541
Product Code	98577987
Version #	04
Issue date	02-04-2011
CAS #	110-42-9
Product use	Production of polyol esters, MCT, agricultural adjuvants/amides, and amines.
Recommended Restrictions	Not available.
Synonym(s)	Methyl decanoate
Manufacturer	P&G Chemicals Asia 238-A Thompson Road #21-01/10 Novena Square Tower A Singapore 307684 (65) 6824 5728 (day phone) PGChemMSDS.IM@pg.com CHEMTREC: +1-703-527-3887 Quality or Service Issues: 1-800-477-8899 or +1-513-626-6882

2. Hazards identification

GHS classification

Physical hazards

Explosives	Classification not possible
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Classification not possible
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible

Health hazards

Oxidizing liquids	Classification not possible
Oxidizing solids	Not applicable
Organic peroxides	Classification not possible
Corrosive to metals	Classification not possible
Acute toxicity, oral	Classification not possible
Acute toxicity, dermal	Classification not possible
Acute toxicity, inhalation	Not applicable
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Classification not possible
Sensitization, respiratory	Classification not possible
Sensitization, skin	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible

Environmental hazards	Specific target organ toxicity, single exposure	Classification not possible
	Specific target organ toxicity, repeated exposure	Classification not possible
	Aspiration hazard	Classification not possible
	Hazardous to the aquatic environment, acute hazard	Not classified
	Hazardous to the aquatic environment, long-term hazard	Not classified
	Hazardous to the ozone layer	Not classified

3. Composition/information on ingredients

Non-hazardous components	CAS #	Percent
Decanoic acid, methyl ester	110-42-9	95-100

4. First aid measures

First aid procedures

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

Notes to physician

Not available.

5. Fire-fighting measures

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

Unsuitable extinguishing media Water may be ineffective.

Specific hazards arising from the chemical Not available.

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

Protective equipment and precautions for firefighters Not available.

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 containment Not available.

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.

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.

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 and chemical properties

Appearance

Water white to Yellow.

Physical state	Liquid.
Form	Liquid.
Odor	Musty.
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	6.8 °F (-14 °C)
Boiling point	>= 350 °F (>= 176.7 °C)
Flash point	199.4 °F (93.3333 °C) estimated 200 - 208 °F (93.3 - 97.8 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (Train fire)	Not available.
Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapor pressure	<= 1 mm Hg
Vapor density	Not available.
Relative density	0.87
Solubility (H2O)	Not available.
Auto-ignition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Reacts with strong base to produce methanol.
Materials to avoid	Oxidizing agents. Strong bases.
Hazardous decomposition products	Does not decompose up to 300 F (149 C). Carbon monoxide with incomplete combustion.

11. Toxicological information

Skin corrosion/irritation	Not available.
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Serious eye damage/eye irritation

Not available.

Other information

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.

12. Ecological information**Aquatic toxicity**

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 methods**

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**ADR**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory information**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
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
Switzerland	Switzerland FOPH	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)

16. Other information**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.

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