

## SAFETY DATA SHEET

### 1. Identification

GHS product identifier	CE-1875A
MSDS Number	ME558
Product Code	99343657
Version #	02
Issue date	11-10-2011
CAS #	67762-38-3
Product use	Production of amides, methyl ester sulfonates, rolling oils, low-volume solvents, and metal working fluids.
Recommended Restrictions	Not available.
Synonym(s)	Fatty acids, C16-18 and C18-unsatd., Me esters
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
	Oxidizing liquids	Classification not possible
	Oxidizing solids	Not applicable
	Organic peroxides	Classification not possible
	Corrosive to metals	Classification not possible
Health hazards	Acute toxicity, oral	Not classified
	Acute toxicity, dermal	Not classified
	Acute toxicity, inhalation	Not applicable
	Skin corrosion/irritation	Classification not possible
	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
	Specific target organ toxicity, single exposure	Classification not possible
	Specific target organ toxicity, repeated exposure	Classification not possible
	Aspiration hazard	Classification not possible
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Classification not possible
	Hazardous to the aquatic environment, long-term hazard	Not classified
	Hazardous to the ozone layer	Not classified

### 3. Composition/information on ingredients

Components	CAS #	Percent
FATTY ACIDS, C16-18 AND C18-UNSATD., METHYL ESTERS	67762-38-3	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	Remove contaminated clothing. Wash the skin immediately with soap and water. 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	Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately. If swallowed, do NOT induce vomiting.

Notes to physician Not available.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Water fog.  
 Small Fires: Carbon dioxide (CO<sub>2</sub>). Dry chemicals.  
 Large Fires: Foam.

#### Unsuitable extinguishing media

Water. Water may be ineffective. Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

Vapors may travel to a source of ignition and flash back.  
 Will decompose at temperatures exceeding 177°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing.

#### Protective equipment and precautions for firefighters

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. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist. If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided.

#### Environmental precautions

Keep run-off water out of sewers and water sources. Dike for water control. Dike the spilled material, where this is possible. Avoid discharge into drains, water courses or onto the ground.

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.  
Methods for cleaning up Extinguish all flames in the vicinity. Ventilate the area.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS. Eliminate sources of ignition.  
Contain spill.

## 7. Handling and storage

Handling Use spark-proof tools and explosion-proof equipment.  
Ground and bond containers when transferring material.  
Avoid contact with skin and eyes. Avoid contact with clothing. Wash thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice.  
"Empty" containers retain product residue (liquid or vapor) and can be dangerous. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.  
Avoid heat, sparks, open flames and other ignition sources. Keep away from heat and sources of ignition.

Storage Carbon steel. Aluminum. Stainless steel.  
Keep away from heat, sparks, and flame.  
Store in a closed container away from incompatible materials.  
Store in a cool, dry place.

## 8. Exposure controls / personal protection

Recommended monitoring procedures Not available.

Recommended monitoring procedures Not available.

Engineering controls Local exhaust is recommended.  
Mechanical ventilation may be required.

Personal protective equipment

General Observe good industrial hygiene practices.  
Avoid contact with eyes. Avoid contact with skin. Avoid breathing dust or vapor from heated material.

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

Eye/face protection Goggles/face shield are recommended.

Skin protection Nitrile gloves are recommended. The use of neoprene gloves is recommended.  
Wear full protective clothing for prolonged exposure and/or high concentrations.

Respiratory protection If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided.

Environmental exposure controls Additional information is available by request.

## 9. Physical and chemical properties

Appearance  
Liquid.

Physical state Liquid.

Color Water. White.: Yellow.

Form Liquid.

Odor	Musty.
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	42.8 °F (6.29 °C) @ 1 atm
Boiling point	669.2 °F (354.3 °C) @ 1 atm
Flash point	341.6 - 345.2 °F (172 - 174 °C) Closed Cup @ 992 bar
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	4.2 mbar @ 25 C
Vapor density	Not available.
Relative density	0.8881 g/cm <sup>3</sup> @ 20 C
Solubility (H <sub>2</sub> O)	< 0.023 mg/l
Octanol/H <sub>2</sub> O coeff	6.2 @ 25 C
Auto-ignition temperature	492.8 - 510.8 °F (256 - 266 °C)
Decomposition temperature	Not available.
Viscosity	6.1 mPa-s @ 20 C

## 10. Stability and reactivity

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Strong bases.
Materials to avoid	Oxidizing agents. Strong bases.
Hazardous decomposition products	Will decompose at temperatures exceeding 177°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

### Toxicological data

Product	Test Results
FATTY ACIDS, C16-18 AND C18-UNSATD., METHYL ESTERS (67762-38-3)	Acute Dermal LD50 Rabbit: > 2000 mg/kg  Acute Oral LD50 Rat: > 5000 mg/kg
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Other information	Additional information is available by request.

## 12. Ecological information

### Ecotoxicological data

Product	Test Results
FATTY ACIDS, C16-18 AND C18-UNSATD., METHYL ESTERS (67762-38-3)	EC50 Green algae ( <i>Pseudokirchneriella subcapitata</i> ): 73729 mg/l 72 hours OECD 201  EC50 Water flea ( <i>Daphnia magna</i> ): 2504 mg/l 48 hours OECD 202  EC50 Zebra danio ( <i>Danio rerio</i> ): 48 hours OECD 203  LR50 Zebra danio ( <i>Danio rerio</i> ): > 0.26 mg/l 96 hours OECD 203

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

The 96 hour LC50 for Bluegills for C16-18 methyl esters was greater than 1000 mg/l.

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

### 13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not discharge into drains, water courses or onto the ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 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	No
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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