



## SAFETY DATA SHEET

### SECTION 1 – CHEMICAL IDENTIFICATION

Trade Name: MFA MC818 Date of Issue: 10/06/10  
Synonym: MC818, MFA, Methacrylated Fatty Acid Revised Date: 7/13/12  
Formula:  $C_{19}H_{34}O_5$   
Chemical Family: Acrylate Ester  
Telephone Number: Information (281) 474-3271  
**Emergency Number: Chemtrec (800) 424-9300**  
HMIS Hazard Rating:  
Health: 1 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least  
Fire: 0 PPE rating to be supplied by user depending on uses conditions  
Reactivity: 2

### SECTION 2 – HAZARDS IDENTIFICATION

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



#### Warning

#### Hazard Statement(s):

H316: Causes mild skin irritation  
H335: May cause respiratory irritation

#### Precautionary Statement(s):

P280: Wear protective PVC or rubber gloves/protective clothing/eye protection/face protection

#### Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbol: Xi  
irritant



Methacrylated C8-18 fatty acids

**EU RISK PHRASES:** R36/37/38 Irritating to eyes, respiratory system and skin

**EU SAFETY PHRASES:** S2- Keep out of the reach of children. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 37/39 Wear suitable gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 53 Avoid exposure - obtain special instructions before use. S46- If swallowed, seek medical advice immediately and show this container or label.

Eye Contact: May cause irritation.  
Skin Contact: May cause irritation.  
Inhalation: May cause respiratory tract irritation and central nervous system depression.  
Ingestion: May cause irritation of the mouth, throat, and gastrointestinal tract with nausea and vomiting.

### SECTION 3 – COMPOSITION

Components	Percentage	TLV	CAS #
Methacrylated Fatty Acids	~97%	N.E.	1255682-07-5

Note: N.E. = Not Established, N/A = Not Applicable

### SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.  
Skin Contact: Immediately remove contaminated clothing and shoes. Wipe excess material from skin and flush with water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse contaminated clothing without laundering. If irritation persists, seek medical advice.  
Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Get medical attention.  
Ingestion: Get medical attention immediately.

### SECTION 5 – FIREFIGHTING MEASURES

Extinguishing Media: Use water, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>).  
Special Fire fighting Procedures/Precautions: Firefighters should wear NIOSH approved self-contained breathing apparatus. Responders should wear protective clothing to prevent skin contact. Move containers from fire area. If unable to move, cool sealed containers with water.

Unusual Fire and Explosion Information: Toxic vapors may be emitted upon thermal decomposition.

Environmental Note: N.E.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Evacuate area of unprotected personnel. Eliminate sources of ignition.

Methacrylated C8-18 fatty acids

Stay upwind and out of low area's. Wear personal protective equipment (See section 8) when responding to spills.

**Spill Management:** Stop source of leak if safe to do so. Dike and contain spill. Use waterspray (fog) to reduce vapors. If vapor cloud forms, blanket area with water fog and foam. Use truck or pump to storage/salvage vessels. Clean up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Spray area with water to remove trace residue. Contain runoff from residue flush and dispose of properly, discharge into United States waterways is prohibited. **Prevent entry into waterways, sewer, or confined areas.** Remove contaminated trace residues from soil and dispose of in same manner as material. For small spills, clean up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and dispose of material properly.

**Disposal:** Proper disposal should be evaluated based on regulatory status of this material (refer to **Section 13**).

## SECTION 7 – HANDLING AND STORAGE

Containers do not have to be grounded and bonded when material is transferred but is recommended as a good practice. Store in a cool, dry place. Keep away from heat, sparks, and flames.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection:	None required for ambient temperature, although an appropriate NIOSH/MSHA approved air-purifying respirator should be used if a mist, vapor or dust is generated, or if engineering controls are not available. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. <b>WARNING:</b> Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
Ventilation:	Utilize local exhaust to control high vapor connections in confined areas.
Protective Gloves:	Utilize appropriate impervious chemical gloves.
Eye Protection:	Chemical goggles and possibly a face shield. Have eyewash facilities readily available.
Other PPE:	Wear additional protective clothing to prevent skin contact. This may include chemical resistant boots and chemical resistant suits.
Work Practices:	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	> 340°C
Melting Point/Freezing Point:	-28°C (-18.4°F)
Molecular Weight:	NA
Volatility/Vol. (%):	N.E.
Viscosity:	73 cPs at 25°C, 29 cPs at 45°C, 21 cPs at 53°C
Vapor Pressure (mm Hg):	5.18X10 <sup>-5</sup> mmHg @ 25 C

## Methacrylated C8-18 fatty acids

Vapor Density (Air = 1):	0.9902
Solubility in H <sub>2</sub> O:	12.2 mg/L
Appearance/Odor:	Clear Yellow Liquid
Odor Threshold:	N.E.
Specific Gravity (H <sub>2</sub> O = 1):	0.9902 @ 25°C, 0.9831 @ 40°C, 0.9763 @ 60°C, 0.9717 @ 80°C
pH:	N.E.
Evap. Rate (butyl acetate = 1):	<1
Flash Point:	>200°C (>392°F) closed cup method
Lower Explosive Limit:	N.E.
Upper Explosive Limit:	N.E.
Auto-ignition Temperature:	N.E.
Refractive Index	1.4581
Physical state of neat substance	liquid
Solubility in MeOH at 25 C, g/L	>3000 g/L

## SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	Sources of ignition and incompatibles.
Incompatible Materials:	Strong acids, acid chlorides, acid anhydrides, strong bases, oxidizing agents, chloroformates and reducing agents.
Decomposition Products:	Oxides of carbon.
Hazardous Polymerization:	May not occur, but may decompose slowly when exposed to moisture air.

## SECTION 11 – TOXICOLOGICAL INFORMATION

ACGIH	TLV: N.E.	STEL: N.E.
OSHA	PEL: N.E.	STEL: N.E.
NIOSH	IDLH N.E.	

**The toxicological effects of this material have not been thoroughly investigated.**

**Carcinogenicity listed by: NTP: No IARC: No OSHA: No**

## SECTION 12 – ECOLOGICAL INFORMATION

A USEPA model predicts that the substance, as a member of the ester/methacrylate group, is toxic to aquatic organisms.

## SECTION 13 – DISPOSAL INFORMATION

Place in a city, state, or federally permitted disposal facility. Handle in accordance with all applicable regulations. Discharge into United States waterways is prohibited.

## SECTION 14 – TRANSPORTATION INFORMATION

### US DOT:

Proper Shipping Name:	Not Hazardous per DOT regulations
Hazard Class:	Non Hazardous.
IATA UN Number:	Not Applicable.
Packing Group:	Not Applicable.
Reportable Quantity:	CERCLA: No Reportable Quantity Limit.
Marine Pollutant:	Not Applicable.

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Label(s) Required: Not Applicable.

## SECTION 15 – REGULATORY INFORMATION

### TSCA:

All substances are listed on, or are exempt from reporting.

TSCA 12(b) Export Notification: Not Listed

California Proposition 65: Not Listed

### SARA Hazard Notification:

Hazard Categories under Title III: None

Section 302 Extremely Hazardous Substances: Not Listed

Section 313 Toxic Chemicals: Not Listed

CERCLA RQ: Not Listed

### European Regulations

- Classification of the substance or mixture
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### Warning

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#### Precautionary Statement(s):

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Irritant

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## SECTION 16 – OTHER INFORMATION

### PPE Codes (NPCA-HMIS)

Methacrylated C8-18 fatty acids

**A** – Glasses

**B** – Glasses, Gloves

**C** – Glasses, Gloves, Apron

**D** – Face shield, Gloves, Apron

**E** – Glasses, Gloves, Dust mask

**F** – Glasses, Gloves, Apron, Dust Respirator

**G** – Glasses, Gloves, Vapor Respirator

**H** – Goggles, Gloves, Apron, Vapor Respirator

**I** – Glasses, Gloves, Dust/Vapor Respirator

**J** – Goggles, Gloves, Apron, Dust/Vapor Respirator

**K** – Supplied Air, Gloves, Full Protective Suit, Boots

## **Disclaimer**

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