

# CA1334 High Titer Oleic Acid

## Safety Data Sheet



### SECTION 1: Identification of the substance or mixture and the company or undertaking

#### 1.1 Product identifier

Product type : Mixture  
Trade name : CA1334 High Titer Oleic Acid  
Label name : CA1334 High Titer Oleic Acid  
Chemical name : Octadecenoic acid  
CAS number : 112-80-1  
EC number : 204-007-1

#### 1.2 Recommended and restricted uses of the substance or mixture

Recommended uses : Industrial, cleaners, detergents, lubricants, agricultural additives, textile additives, coatings, inks, oil field additives.  
Restricted uses : None known.

#### 1.3 Company identification

Company name : Chemical Associates – A Division of Univar USA Inc.  
Company address : 1270 South Cleveland Massillon Road  
: Copley, OH 44321-1683  
Company telephone : 330-666-5200

#### 1.4 Emergency telephone number

Company emergency telephone : 800-347-2891  
CHEMTREC telephone : 800-424-9300

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (29CFR1910.1200 Appendix A) : None.  
GHS physical hazard : None.  
GHS health hazard : None.  
GHS environmental hazard : None.

#### 2.2 Label warnings of the substance or mixture

Signal word : None.  
Hazard statements : None.  
Precautionary statements : None.

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Hazard symbol (pictogram) : None.

### 2.3 Hazards not otherwise classified

Other hazards : No additional information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	Common name	Percent	CAS number	Health hazard
Not applicable.				

### 3.2 Mixtures

Chemical name	Common name	Typical %	CAS number	Health hazard
Octadecenoic Acid	Oleic acid	71	112-80-1	None.
Octadecadienoic Acid	Linoleic acid	8	60-33-3	None.
Hexadecenoic Acid	Palmitoleic acid	6	2091-29-4	None.
Hexadecanoic Acid	Palmitic Acid	5	57-10-3	None.
9-Tetradecenoic Acid	Myristoleic Acid	4	544-64-9	None.
Tetradecanoic Acid	Myristic Acid	3	544-63-8	None.
Fatty acids C14-18	Fatty acids C14-18	3	67701-02-4	None.

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

Exposure route	First-aid measure
Inhalation	: Remove the victim into fresh air. Observe victim's breathing. If breathing is labored seek immediate medical attention.
Skin contact	: Wash immediately with soap and water. If irritation develops, seek medical attention. Launder contaminated clothing.
Eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation occurs, seek immediate medical (ophthalmologist) attention.
Ingestion	: Rinse mouth with plenty of water. For ingestion of large quantities seek immediate medical attention. Do not induce vomiting. Contact poison control center.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms after inhalation	: May experience dizziness and headache.
Symptoms after skin contact	: Irritation of the nose and throat may occur.
Symptoms after eye contact	: Mild irritation of the skin may occur.
	: Irritation of the eye tissue may occur.

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Symptoms after ingestion : May cause corneal inflammation.  
: Mild tingling of the tongue and mouth may occur.  
: May cause gastrointestinal irritation, nausea and vomiting.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment after inhalation : If breathing is labored seek immediate medical attention.  
Treatment after skin contact : If skin irritation occurs seek immediate medical attention.  
Treatment after eye contact : If eye irritation occurs seek immediate ophthalmologist attention.  
Treatment after ingestion : If ingestion of a large quantity seek immediate poison control center.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable media : Carbon dioxide, alcohol resistant foam and water spray.  
Unsuitable media : None known.

### 5.2 Specific hazards arising from the substance or mixture

Direct fire hazard : Not flammable.  
Indirect fire hazard : Exposure to temperature above the flash point (184 C).  
Explosive hazard : Exposure to temperature above the flash point (184 C).  
Reactivity : Reactivity with strong oxidizers.  
Combustion products : Carbon dioxide and carbon monoxide.

### 5.3 Special protective equipment and precautions for fire-fighters

Protective equipment : Full protective clothing.  
: Self contained breathing apparatus.  
Precautions : No additional information available.  
Emergency response guide : Not a hazardous material.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Mixture is not a hazardous material. If mixture is a mist or vapor, stay upwind.  
Protective equipment : Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a mist or vapor wear dust mask or self contained breathing apparatus.  
Emergency procedures : Mark the spill area with hazard tape or cones. Contain the spill area with suitable absorbent. Keep away from streams, rivers and lakes. If mixture is a mist or vapor, alert immediate neighborhood to close windows and doors. Contain and dissipate mist or vapor via spraying with water.

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### 6.2 Environmental precautions

Precautions : Keep out of streams, rivers and lakes. Mixture is regulated as oil under the Clean Water Act. Abide by all laws per this regulation.

### 6.3 Methods and materials for containment and cleanup

Methods : Use chemical absorbent pigs or manually spread chemical absorbent onto spill area. After the mixture is absorbed, dispose in approved waste facility.

Materials : Approved materials include dry earth, sand, clay, chemical absorbent, vermiculite and carbon.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling temperature : About 10 - 20 C above the melt point (16 C).

Handling equipment : Rubber hoses or steel or stainless steel (grade 304) lines. Stainless steel (grade 304) for pumps.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage area : Store in dry area. Store at room temperature. Store in dyke area to contain any spills. Protect from heat.

Packaging materials : Polyethylene or stainless steel (grade 304), rubber lined or epoxy lined tanks or drums. Graphite or rubber gaskets.

Incompatibilities : Strong oxidizers and strong bases.

## SECTION 8: Exposure controls/personal protection

### 8.1 Exposure controls

OSHA PEL : None.

ACGIH TLV : None

NIOSH REL : None.

### 8.2 Appropriate engineering controls

Engineering controls : If mist or vapors exist, install ventilation equipped with carbon canisters. Ventilation should be 10 air exchanges per hour. Local exhaust ventilation is recommended.

### 8.3 Personal protection equipment

Personal protective equipment : Rubber gloves and safety glasses. Dust mask if mist or vapors exist.

Personal protective equipment pictograms :

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### SECTION 9: Physical and chemical properties

#### 9.1 Physical and chemical properties

Appearance	: Light yellow liquid.
Odor	: Mild vegetable oil.
Odor threshold	: No data available.
pH	: No data available. Mixture is not readily soluble in water.
Melting point	: 14 - 16 C.
Boiling point	: 286 C at 100 mm Hg (oleic acid). : 229 C at 16 mm Hg (linoleic acid).
Flash point	: 150 C Tag Closed Cup.
Evaporation rate	: No data available.
Flammability	: Not flammable.
Lower flammability limit	: No data available.
Upper flammability limit	: No data available.
Vapor pressure	: 5.46X10 <sup>-7</sup> mm Hg at 25 C (oleic acid). : 8.68X10 <sup>-7</sup> mm Hg at 25 C (linoleic acid).
Vapor density	: No data available.
Relative density	: 0.891 g/cm <sup>3</sup> at 20 C.
Solubility	: Complete in ethanol and acetone. : 1.15X10 <sup>-2</sup> mg/l at 25 C in water (oleic acid).
Partition coefficient for n-octanol/water	: Log Kow = 7.64 (oleic acid). : Log Kow = 7.05 (linoleic acid).
Auto-ignition temperature	: 363 C (oleic acid).
Decomposition temperature	: No data available.
Viscosity	: 25.6 mPas (cps) at 30 C (oleic acid).

#### 9.2 Other information

Other information : No additional information available.

### SECTION 10: Stability and reactivity

Reactivity	: May react violently with oxidizers.
Chemical stability	: Stable under storage conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Pressure, shock, static discharge or vibration does NOT result in a hazardous condition.
Incompatible materials	: Oxidizers and strong bases.
Hazardous decomposition	: Carbon dioxide and carbon monoxide.

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products

### SECTION 11: Toxicological information

#### 11.1 Information on the likely routes of exposure

Inhalation exposure : From mist, spray or vapors.  
Skin exposure : From mist, spray or vapors.  
Ingestion exposure : Not a likely route of exposure.  
Eye contact : From mist, spray or vapors.

#### 11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Labored breathing and irritation of the lungs may occur.  
Skin contact : Mild skin irritation may occur.  
Ingestion : Mild irritation of the mouth, tongue, esophagus and stomach may occur.  
Eye contact : Mild eye irritation may occur.

#### 11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation : Chronic effects are not known.  
Skin contact : Chronic effects are not known.  
Ingestion : Chronic effects are not known.  
Eye contact : Chronic effects are not known.

#### 11.4 Numerical measures of toxicity

Oral LD50 : Rat > 5000 mg/kg.  
Skin LD50 : No data available.  
Ingestion LD50 : No data available.  
Inhalation LD50 : No data available.  
Skin primary irritation : Human 14 slightly irritating (63 maximum score, oleic acid).  
: Guinea pigs 24 hour no irritation (linoleic acid).  
Eye primary irritation : Rabbit mild conjunctival erythema (linoleic acid).

#### 11.5 Carcinogenicity

National Toxicology Program : Not listed.  
International Agency for  
Research on Cancer : Not listed.  
OSHA : Not listed.  
NIOSH : Not listed.

#### 11.6 Other toxicological information

Reproductive toxicity : Not classified.

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Germ cell mutagenicity : No data available.  
Respiratory or skin sensitization : Not classified.  
Specific target organ toxicity, single exposure : No data available.  
Specific target organ toxicity, repeated exposure : No data available.  
Aspiration hazard : No data available.

### SECTION 12: Ecological information

#### 12.1.1 Ecotoxicity aquatic

Fish LC50 : 389 mg/l 96 hour fathead minnow (oleic acid).  
Daphnia EC50 : No data available.  
Rotifer EC50 : No data available.  
Algae EC50 : No data available.

#### 12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial : No data available.

#### 12.2 Persistence and degradability

Water : 68% 5 day BOD (oleic acid).  
: 52% 5 day BOD (linoleic acid).  
: Readily degradable.  
Soil : Koc = 340,000 (oleic acid)  
: Koc = 163,000 (linoleic acid).  
: Immobile.  
Air : 5 hour half life (oleic acid).  
: 3 hour half life (linoleic acid).

#### 12.3 Bio-accumulative potential

Log Kow : 7.64 (oleic acid).  
: 7.05 (linoleic acid).  
: This mixture has a potential to bio-concentrate.

#### 12.4 Mobility in soil

Surface tension : Air 32.8 dyne/cm at 20 C (oleic acid).  
Soil mobility : Koc = 340,000 (oleic acid)  
: Koc = 163,000 (linoleic acid).  
: Immobile.

#### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available.

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### 12.6 Other adverse effects

Air : Not dangerous to the ozone layer.  
Water : Mild pollutant to surface of water.

## SECTION 13: Disposal considerations

### 13.1 Description of waste residues

Storage tank residues : Liquid residue from tank cleaning.  
Empty package residues : Liquid residue remaining in emptied package container.  
Transport trailer residues : Liquid residue from transport trailer cleaning.  
Absorbent material : Solid absorbent containing mixture from a spill.

### 13.2 Safe handling of waste residues

Storage tank residues : Refer to section 7 for safe handling.  
Empty package residues : Refer to section 7 for safe handling.  
Transport trailer residues : Refer to section 7 for safe handling.  
Absorbent material : Refer to section 7 for safe handling.

### 13.3 Methods of disposal

Storage tank residues : Dispose via an approved incineration facility.  
: Dispose via an approved land fill facility.  
Empty package residues : Dispose only in accordance with local, state and federal regulations.  
: Remove package to an approved package cleaning and recycling facility.  
Transport trailer residues : Dispose only in accordance with local, state and federal regulations.  
: Clean transport trailer at an approved cleaning facility.  
: Disposal of cleaning residues must be in accordance with local, state and federal regulations.  
Absorbent material : Dispose via an approved incineration facility.  
: Dispose via an approved land fill facility.  
: Dispose only in accordance with local, state and federal regulations.

### 13.4 Hazardous waste classification (RCRA)

Classification	Regulation	Listed	Hazardous waste number
Ignitability	40CFR261.21	No	
Corrosivity	40CFR261.22	No	
Reactivity	40CFR261.23	No	
Toxicity	40CFR261.24	No	

## SECTION 14: Transport information

### 14.1 UN number



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UN number : None.

### 14.2 UN proper shipping name

Proper shipping name : None.

### 14.3 Transport hazard class

Hazard class : None.

Hazard label : None.

Hazard pictogram : None.

### 14.4 Packing group

Packing group : None.

### 14.5 Environmental hazards

Marine pollutant : Not listed.

### 14.6 Transport in bulk

US DOT : Not regulated.

IMDG : Not regulated.

IATA : Not regulated.

MARPOL 73/78 : Not regulated.

IBC code : Not regulated.

### 14.7 Special precautions for user

Special precautions : No additional information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the substance or mixture

#### 15.1.1 US regulations

SARA 302 (40CFR355) : Not listed.

SARA 311/312 (40CFR370.66) : Not listed.

SARA 313 (40CFR372.65) : Not listed.

CERCLA (40CFR302.4) : Not listed.

California proposition 65 : Not listed.

German WGK class : 0 (no hazard to waters)

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### 15.1.2 Chemical inventories

TSCA USA : Listed.  
AICS Australia : Listed.  
DSL Canada : Listed.  
EC Europe : Listed.  
ECL Korea : Listed.  
IECSC China : Listed.  
ENCS Japan : Listed.  
NzIoC New Zealand : Unknown.  
PICCS Philippines : Listed.  
SWISS Switzerland : Unknown.

### 15.2 Chemical safety assessment

Safety assessment : No additional information available.

## SECTION 16: Other information

### 16.1 Hazard ratings

	Health	Flammability	Physical hazards	Instability
HMIS (USA)	1	1	0	
NFPA (USA)	1	1		0

### 16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 03/35/2014  
Supersede date (MM/DD/YY) : 12/29/2010

### 16.3 Notice to reader

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates – A Division of Univar USA Inc. bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.