

# CA1405 Partially Hydrogenated Coconut Fatty 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 : CA1405 Partially Hydrogenated Coconut Fatty Acid  
Label name : CA1405 Partially Hydrogenated Coconut Fatty Acid  
Chemical name : Coconut Oil Fatty Acids (C8-18/18:1)  
CAS number : 67701-05-7  
EC number : 2669290

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

Recommended uses : Industrial, cleaners, lubricants, soaps, surfactants, agricultural additives, coatings, food additives, textile 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) : Skin irritation category 2.  
: Eye irritation category 2B.  
GHS physical hazard : None identified  
GHS health hazard : Skin irritation category 2.  
: Eye irritation category 2B.  
GHS environmental hazard : Aquatic hazard category 3.

### 2.2 Label warnings of the substance or mixture

Signal word : Warning.  
Hazard statements : H316 Causes mild skin irritation.  
: H320 Causes eye irritation.

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Precautionary statements

: H412 Harmful to aquatic life with long lasting effects.  
: P264 Wash hands thoroughly after handling.  
: P273 Avoid release to the environment.  
: P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
: P332+313: If skin irritation occurs: Get medical advice/attention.  
: P337+313: If eye irritation persists get medical advice/attention.  
: P391 Collect spillage.  
: P501 Dispose of contents/container to an approved disposal facility only in accordance with local, state and federal regulations.

Hazard symbol (pictogram)



### 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
Dodecanoic acid	Lauric Acid	50	143-07-7	Skin and eye irritant
Tetradecanoic acid	Myristic Acid	18	544-63-8	None
Hexadecanoic acid	Palmitic Acid	8	57-10-3	None
(9Z)-Octadec-9-enoic acid	Oleic Acid	4	112-80-1	None
Octanoic Acid	Caprylic Acid	7	124-07-2	Corrosive
Decanoic Acid	Capric Acid	6	334-48-5	Corrosive
Octadecanoic acid	Stearic Acid	6	57-11-4	None
Hexanoic Acid	Caproic Acid	1	142-62-1	None

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

**Exposure route**

Inhalation

**First-aid measure**

: Remove the victim into fresh air. Observe victim's breathing. If breathing is labored seek immediate medical attention.

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Skin contact	: Wash immediately with soap and water. If irritation occurs, 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 persists, 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. : Irritation of the nose and throat.
Symptoms after skin contact	: Mild irritation of the skin may occur.
Symptoms after eye contact	: Irritation of the eye tissue. : May cause corneal inflammation.
Symptoms after ingestion	: Mild tingling of the tongue and mouth. : 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 persists seek immediate medical attention.
Treatment after eye contact	: If eye irritation persists 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 (157°C).
Explosive hazard	: Exposure to temperature above the flash point (157°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.
Emergency response guide	: Not a hazardous material.

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### SECTION 6: Accidental release measures

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

Personal precautions	: Mixture is an irritant. If mixture is a hot mist or dust, stay upwind.
Protective equipment	: Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a hot mist or dust wear dust mask or self contained breathing apparatus.
Emergency procedures	: Mark the spill area with hazard tape or cones. Contain the hot liquid spill area with suitable absorbent. Keep away from streams, rivers and lakes. If mixture is a hot mist or dust, alert immediate neighborhood to close windows and doors. Contain and dissipate hot mist or dust via spraying with water.

#### 6.2 Environmental precautions

Precautions	: Keep out of streams, rivers and lakes. Mixture is harmful to aquatic organisms. Mixture is regulated as oil under the Clean Water Act. Abide by all laws per this regulation.
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#### 6.3 Methods and materials for containment and cleanup

Methods	: Use chemical absorbent pigs or manually spread chemical absorbent onto hot liquid 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 (22 - 26°C).
Handling equipment	: Rubber hoses or stainless steel (grade 316) lines. Stainless steel (grade 316) 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, stainless steel (grade 316), rubber lined or epoxy lined tanks or drums. Graphite or rubber gaskets.
Incompatibilities	: Strong oxidizers.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Exposure controls

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OSHA PEL : None.  
ACGIH TLV : None.  
NIOSH REL : None.

### 8.2 Appropriate engineering controls

Engineering controls : If dust exists, 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 dust exists.  
Personal protective equipment pictograms :



## SECTION 9: Physical and chemical properties

### 9.1 Physical and chemical properties

Appearance : Light yellow, semi-solid  
Odor : Fatty acid odor  
Odor threshold : 10 PPM.  
pH : No data available. Mixture is not readily soluble in water.  
Melting point : 22 - 26°C.  
Boiling point : 160°C.  
Flash point : 157°C, Cleveland Open Cup  
Evaporation rate : No data available.  
Flammability : Not flammable.  
Lower flammability limit : No data available.  
Upper flammability limit : No data available.  
Vapor pressure : 100 mm Hg at 445°F  
Vapor density : 6.91 (air = 1).  
Relative density : 0.89 g/cm<sup>3</sup> 25°C.  
Solubility : Complete in ethanol and acetone.  
: Insoluble in water.  
Partition coefficient for n-octanol/water : No data available  
Auto-ignition temperature : No data available.  
Decomposition temperature : No data available.  
Viscosity : 7.30 mPas 50°C.

### 9.2 Other information

Other information : No additional information available.

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### 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 products	: Carbon dioxide and carbon monoxide.

### SECTION 11: Toxicological information

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

Inhalation exposure	: From hot mist or dust.
Skin exposure	: From hot mist or dust
Ingestion exposure	: Not a likely route of exposure.
Eye contact	: From hot mist or dust

#### 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	: No data available
Skin LD50	: No data available.
Ingestion LD50	: Rat > 2000mg/kg. Practically nontoxic
Inhalation LD50	: No data available.
Skin primary irritation	: Draize = slightly irritating. Unlikely to cause skin sensitization
Eye primary irritation	: Draize = slightly irritating

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### 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.  
Germ cell mutagenicity : Not classified.  
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 : 96 hour = 900mg/l (bluegill)  
Daphnia EC50 : No data available  
Rotifer EC50 : No data available.  
Algae EC50 : No data available.

### 12.1.2 Ecotoxicity terrestrial

Avian LC50 : No data available

### 12.2 Persistence and degradability

Water : Product is essentially insoluble in water  
Soil : This material is readily biodegradable  
Air : 27 hour half life (lauric acid).

### 12.3 Bio-accumulative potential

Log Kow : LogPow/BCF . ca. 7

### 12.4 Mobility in soil

Surface tension : Air 26.6 mN/m 70°C.  
Soil mobility : Koc =7,600 (estimated for lauric acid).  
: Immobile.

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### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available.

### 12.6 Other adverse effects

Air : Not dangerous to the ozone layer.

Water : Essentially insoluble in water

## SECTION 13: Disposal considerations

### 13.1 Description of waste residues

Storage tank residues : Hot liquid residue from tank cleaning.  
Empty package residues : Solid residue remaining in emptied bag or drum container.  
Transport trailer residues : Hot 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 drum 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	



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## SECTION 14: Transport information

### 14.1 UN number

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) : Immediate (acute) health hazard. Irritant.

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

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CERCLA (40CFR302.4) : Not listed.  
California proposition 65 : Not listed.  
German WGK class : 1 (low hazard to waters).

### 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.  
NzloC New Zealand : Listed.  
PICCS Philippines : Listed.

### 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	0

### 16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 03/12/2015  
Supersede date (MM/DD/YY) : 12/07/2012

### 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.