

# CA1502 Lauric Acid 98%

## 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 : CA1502 Lauric Acid 98%  
Label name : CA1502 Lauric Acid 98%  
Chemical name : Dodecanoic acid  
CAS number : 143-07-7  
EC number : 205-582-1

#### 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.  
GHS health hazard : Skin irritation category 2.  
: Eye irritation category 2B.  
GHS environmental hazard : Acute aquatic toxicity category 3.  
: Chronic aquatic toxicity category 3.

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

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Signal word : Warning

Hazard statements : H316 Causes mild skin irritation.  
: H319 Causes serious eye irritation.  
: H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P264 Wash hands thoroughly after handling.  
: P273 Avoid release to the environment.  
: P280 Wear eye protection, protective clothing, and protective gloves.  
: 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	99 – 99.6	143-07-7	Skin and eye irritant
Decanoic acid	Capric acid	0 – 0.3	334-48-5	Skin and eye irritant
Tetradecanoic acid	Myristic acid	0 – 0.3	544-63-8	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.

Skin contact

: Wash immediately with soap and water. If irritation occurs, seek

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Eye contact	medical attention. Launder contaminated clothing. : 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 (160°C).
Explosive hazard	: Exposure to temperature above the flash point (160°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 (43°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

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### 8.1 Exposure controls

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 : Clear, colorless solid or white powder, flake or bead  
Odor : Mild sweet pungent odor.  
Odor threshold : 10 PPM.  
pH : No data available. Mixture is not readily soluble in water.  
Melting point : 42 - 44°C.  
Boiling point : 297 - 299°C.  
Flash point : 160°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 : 1.6X10<sup>-5</sup> mm Hg at 25°C.  
Vapor density : 6.91 (air = 1).  
Relative density : 0.833 g/cm<sup>3</sup> at 20°C.  
Solubility : Complete in ethanol and acetone.  
: 4.81 mg/l at 25°C in water.  
Partition coefficient for n-octanol/water : Log Kow = 4.60  
Auto-ignition temperature : No data available.  
Decomposition temperature : No data available.  
Viscosity : 6.88 cP at 50°C.

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### 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 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 : Rat 12,000 mg/kg.  
Skin LD50 : No data available.

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Ingestion LD50	: No data available.
Inhalation LD50	: No data available.
Skin primary irritation	: Rabbit 21 day score = 3 moderate to severe erythema. : Rabbit 21 day score = 2 slight edema. : Rabbit 500 mg mild rating.
Eye primary irritation	: Rabbit 21 day score = 1 slight corneal inflammation. : Rabbit 100 mg mild rating.

### 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	: 35 mg/l 96 hour blue gill (lauric acid). : 35 mg/l 96 hour rainbow trout (lauric acid).
Daphnia EC50	: 16.9 mg/l 48 hour (lauric acid).
Rotifer EC50	: No data available.
Algae EC50	: No data available.

### 12.1.2 Ecotoxicity terrestrial

Avian LC50	: >5620 PPM 8 day northern bobwhite (lauric acid). : >5620 PPM 8 day mallard duck (lauric acid).
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### 12.2 Persistence and degradability

Water	: No data available.
Soil	: Koc =7,600 (estimated for lauric acid). : Immobile.

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Air : 27 hour half life (lauric acid).

### 12.3 Bio-accumulative potential

Log Kow : 4.60 at 25°C (lauric acid).  
: BCF = 255 zebra fish (lauric acid).  
: The mixture has a potential to bio-concentrate.

### 12.4 Mobility in soil

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

### 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 : Mild pollutant to surface of water.  
: Bio-accumulative.

## 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.



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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

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.

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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.  
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.  
SWISS Switzerland : 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)	2	1	0	
NFPA (USA)	2	1		0

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### 16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 06/29/2015

Supersede date (MM/DD/YY) : 12/17/2014

### 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.