

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

CA1502 Lauric Acid 98%

Safety Data Sheet



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

Skin contact

First-aid measure

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

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

CA1502 Lauric Acid 98%

Safety Data Sheet



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.

CA1502 Lauric Acid 98%

Safety Data Sheet



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.
-------------	---

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

CA1502 Lauric Acid 98%

Safety Data Sheet



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 : 1.6X10⁻⁵ mm Hg at 25°C.
Vapor density : 6.91 (air = 1).
Relative density : 0.833 g/cm³ 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.

CA1502 Lauric Acid 98%

Safety Data Sheet



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.

CA1502 Lauric Acid 98%

Safety Data Sheet



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).

12.2 Persistence and degradability

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

CA1502 Lauric Acid 98%

Safety Data Sheet



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.

CA1502 Lauric Acid 98%

Safety Data Sheet



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.

CA1502 Lauric Acid 98%

Safety Data Sheet



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

CA1502 Lauric Acid 98%

Safety Data Sheet



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.