CA1575 Capric Acid 97%
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	: CA1575 Capric Acid 97%
Label name	: CA1575 Capric Acid 97%
Chemical name	: Capric acid; decanoic acid
CAS number	: 334-48-5
EC number	: 206-376-4

1.2 Recommended and restricted uses of the substance or mixture

Recommended uses	: Industrial, metal working additives, cleaners, plastic 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	: Skin corrosive category 2.
Appendix A)	: Serious eye damage category 2A
GHS physical hazard	: Not classified.
GHS health hazard	: Skin corrosive category 2. : Eye irritation category 2A.
GHS environmental hazard	: Not classified.

2.2 Label warnings of the substance or mixture

Signal word	: Warning
Hazard statements	: H319 Causes serious eye irritation. Causes skin irritation.

Precautionary statements	: P260 Do not breathe mist, vapors, spray. : P264 Wash hands thoroughly after handling. : P280 Wear protective gloves/protective clothing/eye protection/face protection. : P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. : P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. : P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. : P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. : P310: Immediately call a POISON CENTER or doctor/physician if you feel unwell or skin or eye irritation persists. : P363 Wash contaminated clothing before reuse. : P405 Store locked up.
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
Decanoic acid	Capric acid	97	334-48-5	Corrosive
Octanoic acid	Caprylic acid	1	124-07-2	Corrosive
Dodecanoic acid	Lauric acid	2	143-07-7	Irritant

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 plenty of water for 15 minutes. Use emergency shower if affected area is extensive. Soap may be used.
Eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. Do not use neutralizing agents. 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	: Irritation of the respiratory tract and the nasal mucous membranes.
Symptoms after skin contact	: Irritation of the skin with possible lesions.
Symptoms after eye contact	: Irritation of the eye tissue and possible corneal damage.
Symptoms after ingestion	: Irritation and tingling of the tongue and mouth.

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 burns or irritation persist, 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, foam and water.
Unsuitable media	: None known.

5.2 Specific hazards arising from the substance or mixture

Direct fire hazard	: Not combustible.
Indirect fire hazard	: Exposure to temperature above the flash point (150°C).
Explosive hazard	: Exposure to temperature above the flash point (150°C).
Reactivity	: Violent reactivity with strong oxidizers or strong bases.
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	: Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. : Effects of contact or inhalation may be delayed.

	: Fire may produce irritating, corrosive and/or toxic gases.
	: Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.
Emergency response guide	: ERG 153.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Mixture is corrosive. If mixture is a mist, stay upwind.
Protective equipment	: Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If mixture is a mist wear dust mask or self contained breathing apparatus.
Emergency procedures	: As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters. Mark the spill area with hazard tape or cones. Contain the spill area with suitable absorbent.
	: Keep away from streams, rivers and lakes. If material is a mist alert immediate neighborhood to close windows and doors. Contain and dissipate mist via spraying with water.

6.2 Environmental precautions

Precautions	: Keep out of streams, rivers and lakes. Mixture is harmful to aquatic organisms. Refer to section 12. 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 hazardous waste facility.
Materials	: Approved absorbent 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 (28 - 31°C).
Handling equipment	: Rubber hoses or stainless steel (grade 316 or 316L) lines. Stainless steel (316 or 316L grade) or polyperfluoroethylene 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 or 316L) rubber lined or

	epoxy lined tanks. Graphite or polyperfluoroethylene 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 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, rubber apron, safety glasses or face shield. Dust mask if mist exists.
Personal protective equipment pictograms	: 

SECTION 9: Physical and chemical properties

9.1 Physical and chemical properties

Appearance	: Clear, colorless to slight yellow liquid at room temperature.
Odor	: Acrid, pungent and irritating odor.
Odor threshold	: 3 PPM.
pH	: 3.6 (0.068% in water).
Melting point	: 28 - 31°C.
Boiling point	: 269°C.
Flash point	: 150° C, Cleveland closed cup.
Evaporation rate	: No data available.
Flammability	: Not flammable.
Lower flammability limit	: No data available.
Upper flammability limit	: No data available.
Vapor pressure	: < 1 hPa @ 20°C
Vapor density	: No data available.
Density	: 0.88

Solubility	: 0.15 g/l @ 20°C
Partition coefficient for n-octanol/water	: No data available.
Auto-ignition temperature	: >250°C.
Decomposition temperature	: No data available.
Viscosity	: 5.4 mPas (cps) at 40°C.

9.2 Other information

Other information	: No additional information available.

SECTION 10: Stability and reactivity

Reactivity	: May react violently with oxidizers and strong bases.
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.
Hazardous decomposition products	: Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on the likely routes of exposure

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

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Labored breathing and irritation of the lungs may occur.
Skin contact	: Skin burns, redness, and irritation may occur.
Ingestion	: Redness, soreness and irritation of the mouth, tongue, esophagus and stomach may occur.
Eye contact	: Eye damage and corneal damage 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	: Causes skin irritation.
Ingestion	: Chronic effects are not known.

Eye contact	: Causes serious eye irritation.

11.4 Numerical measures of toxicity

Oral LD50	: Rat > 15800 mg/kg bw/day.
Skin LD50	: Rabbit > 2000 mg/kg bw/day.
Ingestion LD50	: No data available.
Inhalation LC50	: Rat > 0.1621 mg/l, 4 hours, IHT.
Skin primary irritation	: Rabbit 0, OECD 404. Result: Corrosive.
Eye primary irritation	: Rabbit. In vivo, Reg for the Enforcement of Fed. Haz. Subs. Act. Result: Irritant

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	: No data available.
Germ cell mutagenicity	: OECD 473 In vitro. Organ: CHL. Result: Negative
Respiratory or skin sensitization	: Not classified.
Specific target organ toxicity, single exposure	: Not classified.
Specific target organ toxicity, repeated exposure	: Rat 1000 mg/kg bw/day Subchronic, NOAEL, Oral, OECD 422. Result: No effect
Aspiration hazard	: No data available.
Inhalation	: No data available.

SECTION 12: Ecological information

12.1.1 Ecotoxicity aquatic

Fish LC50	: > 16 mg/l 96 hours, OECD 203 (Orzias latipes).
Daphnia EC50	: >20 mg/l, 48 hours, OECD 202 (Daphia magna).
Algae EC50	: 3.2 mg/kg, 72 hours OECD 201 (Pseudokirchneriella subcapitata)

12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial	: No data available

12.2 Persistence and degradability

Water	: No data available.
Soil	: 105% OECD 301D. Result: Readily biodegradable. Species: Activated sludge of a predominantly domestic sewage. Test duration: 30 days.
Air	: Half life: 11.485 hours, EPI suite

12.3 Bio-accumulative potential

Log Koc	: Log Koc = 2.42, KOCWIN v2.0. : This mixture will not bio-accumulate

12.4 Mobility in soil

Surface tension	: No data available.
Soil mobility	: No data available.

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.

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. Corrosive category 1.
Empty package residues	: Refer to section 7 for safe handling. Corrosive category 1.
Transport trailer residues	: Refer to section 7 for safe handling. Corrosive category 1.
Absorbent material	: Refer to section 7 for safe handling. Corrosive category 1.

13.3 Methods of disposal

Storage tank residues	: Dispose via an approved incineration facility. : Dispose via an approved land fill facility. : Dispose only in accordance with local, state and federal regulations.

Empty package residues	: Remove package to an approved package cleaning and recycling facility.
	: Dispose only in accordance with local, state and federal regulations.
Transport trailer residues	: 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	Yes	D002 (solid waste only)
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, per 49CFR172.101 Appendix B.

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.
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.
NZIoC 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

16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 06/08/2015
Supersede date (MM/DD/YY) : 09/14/2010

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.