

CA1900 Pelargonic 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 : CA1900 Pelargonic Acid
Label name : CA1900 Pelargonic Acid
Chemical name : Carboxylic Acid
CAS number : 112-05-0
EC number : 203-931-2

1.2 Recommended and restricted uses of the substance or mixture

Recommended uses : Formulation; Cleaning Agent; Lubricants and lubricant additives; Laboratory chemicals; Industrial processing of articles
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 corrosion/irritation Category 1B
: Serious eye damage/irritation Category 2A
GHS physical hazard : None.
GHS health hazard : Skin corrosion/irritation Category 1B
: Serious eye damage/irritation Category 2A
GHS environmental hazard : None.

2.2 Label warnings of the substance or mixture

Signal word : WARNING
Hazard statements : H315: Causes skin irritation
: H320 Causes eye irritation
: H335 May cause respiratory irritation

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Precautionary statements : P280: Wear protective gloves and eye/face protection.
: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
: P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
: P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
: P305+P351+P338: 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 CENTRE or doctor.

Hazard symbol (pictogram)



2.3 Hazards not otherwise classified

Other hazards : Vapor/air-mixtures are explosive at intense warming.

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
Nonanoic Acid	Pelargonic Acid	94	112-05-0	None.
Octanoic acid	Caprylic acid	4	124-07-2	Corrosive
Decanoic acid	Capric acid	2	334-48-5	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. Do not use neutralizing agents. If irritation persists, seek immediate medical (ophthalmologist) attention.
Ingestion	: Rinse mouth with plenty of water. For ingestion of large quantities

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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 : Shortness of breath; lung irritation; lung edema; headache
Symptoms after skin contact : Mild irritation of the skin may occur.
Symptoms after eye contact : Irritation of the eye tissue.
Symptoms after ingestion : Mild 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 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, foam and water spray.
Unsuitable media : Do not use solid water stream as it may scatter and spread fire

5.2 Specific hazards arising from the substance or mixture

Direct fire hazard : May be combustible at high temperature.
Indirect fire hazard : Exposure to temperature above the flash point (141°C).
Explosive hazard : Exposure to temperature above the flash point (141°C).
Reactivity : Reactivity with strong oxidizers or strong bases.
Combustion products : Carbon dioxide, 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 : Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

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Protective equipment : Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a mist 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, alert immediate neighborhood to close windows and doors. Contain and dissipate mist via spraying with water.

6.2 Environmental precautions

Precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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°C above the melt point (13°C).

Handling equipment : Rubber hoses 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, 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 established.

ACGIH TLV : None established.

NIOSH REL : None established.

8.2 Appropriate engineering controls

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Engineering controls : General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

8.3 Personal protection equipment

Personal protective equipment : Rubber gloves and safety glasses. Dust mask if mist exists.
Personal protective equipment pictograms :



SECTION 9: Physical and chemical properties

9.1 Physical and chemical properties

Appearance : Yellowish
Odor : Weak fatty acid odor.
Odor threshold : No data available.
pH : 4.4 (0.1 g/l in water @ 25°C (77°F))
Melting point : 13°C (Pour point).
Boiling point : 230°C to 237°C at 760 mm Hg.
Flash point : 141°C, Cleveland Open Cup
Evaporation rate : Approximately 0 (n-butyl acetate = 1)
Flammability : Not flammable.
Lower flammability limit : 0.8 volume %
Upper flammability limit : 9.0 volume %
Vapor pressure : < 0.001 atm at 20°C.
Vapor density : No data available.
Relative density : 0.904 at 25°C.
Solubility : In water 0.3 g/l at 20°C.
Partition coefficient for n-octanol/water : No data available
Auto-ignition temperature : 355°C
Decomposition temperature : No data available.
Viscosity : 8.1 mPas (cps) at 20°C.

9.2 Other information

Other information : No additional information available.

SECTION 10: Stability and reactivity

Reactivity : May react violently with oxidizers.

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Chemical stability	: Stable under storage conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.
Incompatible materials	: Bases, amines, strong oxidizing agents, reducing agents.
Hazardous decomposition products	: Carbon dioxide, 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	: 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	: Rabbit: 5000 mg/kg.
Skin LD50	: Rabbit: 5000 mg/kg.
Ingestion LD50	: No data available.
Inhalation LD50	: No data available.
Skin primary irritation	: Rabbit: Moderate irritant
Eye primary irritation	: Rabbit: Severe irritant

11.5 Carcinogenicity

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

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OSHA : Not listed.
NIOSH : Not listed.

11.6 Other toxicological information

Reproductive toxicity : Not classified.
Germ cell mutagenicity : Not classified.
Respiratory or skin sensitization : No data available.
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 : 104 mg/l 96 hour fathead minnow.
: 91 mg/l 96 hour rainbow trout
Daphnia EC50 : 119 ppm 48 hour daphnia magna.

12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial : No data available.

12.2 Persistence and degradability

Water : 68 - 75% 28 days STURM OECD 301B.
: Readily degradable.
Soil : No data available
Air : No data available

12.3 Bio-accumulative potential

Log Kow : No data available
:

12.4 Mobility in soil

Surface tension : Air 31.7 mN/m at 20°C.
Soil mobility : No data available

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment This substance is not considered to be persistent, bio-accumulating nor toxic (PBT), nor very persistent nor very bio-accumulating (vPvB)

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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.
 : 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	No	
Reactivity	40CFR261.23	No	
Toxicity	40CFR261.24	No	

SECTION 14: Transport information

14.1 UN number

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UN number : Not regulated

14.2 UN proper shipping name

Proper shipping name : Not regulated

14.3 Transport hazard class

Hazard class : Not regulated

Hazard label : None

Hazard pictogram : None

14.4 Packing group

Packing group :

14.5 Environmental hazards

Marine pollutant :

14.6 Transport in bulk

US DOT : Not regulated

IMDG : Not regulated

IATA : Not regulated

MARPOL 73/78 : Not regulated

IBC code : None

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 : Not listed

15.1.2 Chemical inventories

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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 : 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)	2	1	0	0
NFPA (USA)	2	1		0

16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 03/20/2015
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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.