CA5040 C18 Alcohol 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	: CA5040 C18 Alcohol 98%
Label name	: CA5040 C18 Alcohol 98%
Chemical name	1-Octadecanol
CAS number	: 112-72-1
EC number	: 204-017-6

1.2 Recommended and restricted uses of the substance or mixture

Recommended uses	: Industrial, cleaners, surfactants, 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)	: Not classified.
GHS physical hazard	: Not classified.
GHS health hazard	: Not classified.
GHS environmental hazard	: Not classified.

2.2 Label warnings of the substance or mixture

Signal word	: None.
Hazard statements	: None known
Precautionary statements	: None.

Hazard symbol (pictogram) : None.

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
1-Octadecanol	Stearyl alcohol	98+	112-72-1	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. 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 (172° C).
Explosive hazard	: Exposure to temperature above the flash point (172° 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	: Material will burn, but not ignite readily. : Inhalation of material may be harmful. Contact may cause burns to skin and eyes. : Fire may produce irritating, corrosive and/or toxic gases. : Runoff from fire control may cause pollution.
Emergency response guide	: None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Mixture is not hazardous. If mixture is a mist, stay upwind.
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	: 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 (dry earth, sand, clay, chemical absorbent, vermiculite and carbon). : 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	: Keep out of streams, rivers and lakes.

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° - 20° C above the melt point (56 - 60° C).
Handling equipment	: Rubber hoses, aluminum, carbon steel 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, aluminum, carbon steel, stainless steel (grade 304), rubber lined or epoxy lined tanks or drums. Graphite or rubber gaskets.
Incompatibilities	: Strong oxidizers, inorganic acids and halogens.

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 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 mist exists.
Personal protective equipment pictograms	:

SECTION 9: Physical and chemical properties

9.1 Physical and chemical properties

Appearance	: Waxy white solid
Odor	: Mild, sweet pungent odor.
Odor threshold	: No data available.
pH	: No data available. Mixture is not readily soluble in water.
Melting point	: 56° - 60° C range.
Boiling point	: >249° C range.
Flash point	: 172° C, Pensky-Martens Closed Cup.
Evaporation rate	: No data available.
Flammability	: No data available.
Lower flammability limit	: No data available.
Upper flammability limit	: No data available.
Vapor pressure	: < 1 mmHg @ 22° C
Vapor density	: No data available.
Relative density	: 0.81 at 65/25° C (water).
Solubility	: Negligible at 25° C in water
Partition coefficient for n-octanol/water	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available

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, inorganic acids and halogens.
Hazardous decomposition products	: Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on the likely routes of exposure

Inhalation exposure	: Not classified.
Skin exposure	: Not classified.
Ingestion exposure	: Not classified.
Eye contact	: Not classified.

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 > 2000 mg/kg, OECD 401.
Skin LD50	: Rabbit 8000 mg/kg, 24 hours
Ingestion LD50	: No data available.
Inhalation LD50	: No data available.
Skin primary irritation	: In vivo, OECD 406. Non-sensitizing.
Eye primary irritation	: No data available.

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	: Ames Test – 5000 In vitro, microgram/plate. OECD 401. Result: Negative; Salmonella typhimirium. : Chromosome aberration – In vivo, OECD 474. Result: Negative.

Mouse, 24 hours.

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	: 0.4 mg/l 96 hour rainbow trout, Donaldson trout (Oncorhynchus mykiss).
Daphnia EC50	: 1700 mg/l 48 hour daphnia magna; OECD 202.
Daphnia NO50	: 47.6 ug/l 96 hours; daphnia magna; EPA OPPTS 850.1300.
Algae NO50	: 0.0011 mg/l 96 hour green algae; OECD 202.

12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial	: No data available.

12.2 Persistence and degradability

Water	: 88.4% 60 days. : Readily degradable.
Soil	: Koc = 55,000 (estimated for n-tetradecanol). : Immobile.
Air	: 14.4 hour half life.

12.3 Bio-accumulative potential

Log Koc	: No data available.

12.4 Mobility in soil

Surface tension	: No data available
Soil mobility	: Log Koc = 5.67. : 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 : No data available.

SECTION 13: Disposal considerations

13.1 Description of waste residues

Storage tank residues : Liquid residue from tank cleaning.
Empty package residues : Solid 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.
: 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	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.
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) : Not listed.
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

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)	0	1	0	
NFPA (USA)	0	1		0

16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 04/27/2015
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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.