

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



### SECTION 1: Identification of the substance or mixture and the company or undertaking

#### 1.1 Product identifier

Product type : Substance  
Trade name : CA3551 Pentaerythritol Monooleate  
Label name : CA3551 Pentaerythritol Monooleate  
Chemical name : 9-octadecenoic acid, monoester, with pentaerythritol; PE monooleate  
CAS number : 10332-32-8  
EC number : 233-723-7

#### 1.2 Recommended and restricted uses of the substance or mixture

Recommended uses : Industrial, personal care, lubricants, plasticizers, coating additives, pharmaceutical additives and 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) : None.  
GHS physical hazard : None.  
GHS health hazard : None.  
GHS environmental hazard : None.

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

Signal word : None.  
Hazard statements : None.

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



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
9-octadecenoic acid, monoester, with pentaerythritol	Pentaerythritol monooleate	100	10332-32-8	None

### 3.2 Mixtures

Chemical name	Common name	Typical %	CAS number	Health hazard
Not applicable.				

## 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 occurs, 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.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms after inhalation	: Unknown.
Symptoms after skin contact	: Similar products were not classified as primary skin irritants or corrosive materials.
Symptoms after eye contact	: Similar products were not classified as primary eye irritants.
Symptoms after ingestion	: Mild tingling of the tongue and mouth may occur. : May cause mild nausea.

### 4.3 Indication of any immediate medical attention and special treatment needed

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



Treatment after inhalation : If breathing is labored seek immediate medical attention.  
Treatment after skin contact : If skin irritation occurs seek immediate medical attention.  
Treatment after eye contact : If eye irritation occurs 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 (280°C).  
Explosive hazard : Exposure to temperature above the flash point (280°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.  
: Contact may cause irritation to eyes.  
: Fire may produce irritating and/or toxic gases.  
: Runoff from fire control may cause pollution.  
Emergency response guide : Not a hazardous material.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : If substance 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 : Mark the spill area with hazard tape or cones. Contain the spill area with suitable absorbent. Keep away from streams, rivers and lakes. If substance is a mist, alert immediate neighborhood to close windows and doors. Contain and dissipate mist via spraying with water.

#### 6.2 Environmental precautions

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



Precautions : Keep out of streams, rivers and lakes. Substance 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 substance 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.

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 : Oxidizers.

## SECTION 8: Exposure controls/personal protection

### 8.1 Exposure controls

OSHA PEL : None.

ACGIH TLV : TWA 10 mg/m3.

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 and safety glasses. Dust mask if mist exists.

Personal protective equipment pictograms :

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



### SECTION 9: Physical and chemical properties

#### 9.1 Physical and chemical properties

Appearance	: Yellow to amber.
Odor	: Sweet odor.
Odor threshold	: No data available.
pH	: No data available. Substance is not readily soluble in water.
Melting point	: ca. -20°C
Boiling point	: > 250°C.
Flash point	: 280°C, Closed Cup.
Evaporation rate	: No data available.
Flammability	: Not flammable.
Lower flammability limit	: No data available.
Upper flammability limit	: No data available.
Vapor pressure	: 5.8X10-6 mm Hg at 25°C.
Vapor density	: 11.4 (air = 1).
Relative density	: 0.94
Solubility	: Insoluble in water.
Partition coefficient for n-octanol/water	: Log Pow = 3.8/>6 (OECD117)
Auto-ignition temperature	: > 300°C.
Decomposition temperature	: No data available.
Viscosity	: ca 15 mm <sup>2</sup> /s at 100°C

#### 9.2 Other information

Other information : VOC content < 0.1% (1999/13/EC; 2004/42/EC)

### 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.

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



### SECTION 11: Toxicological information

#### 11.1 Information on the likely routes of exposure

Inhalation exposure : From mist.  
Skin exposure : From mist or splashing.  
Ingestion exposure : Not a likely route of exposure.  
Eye contact : From mist or 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 : Rat > 5000 mg/kg. Non-toxic.  
Skin LD50 : Not classified.  
Ingestion LD50 : Not classified.  
Inhalation LD50 : Not classified.  
Skin primary irritation : Not classified.  
Eye primary irritation : Not classified.

#### 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.

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



Germ cell mutagenicity : Not classified.  
Respiratory or skin sensitization : Not classified.  
Specific target organ toxicity, single exposure : Not classified.  
Specific target organ toxicity, repeated exposure : Not classified.  
Aspiration hazard : Not classified.

### SECTION 12: Ecological information

#### 12.1.1 Ecotoxicity aquatic

Fish LC50 : No data available.  
Daphnia EC50 : No data available.  
Rotifer EC50 : No data available.  
Algae EC50 : No data available.

#### 12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial : No data available.

#### 12.2 Persistence and degradability

Water : No data available.  
Soil : Koc = 39,000.  
: Immobile.  
Air : 15 hour half life.

#### 12.3 Bio-accumulative potential

Log Pow : 3.8/>6 (OECD117)

#### 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 : This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.  
: This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

#### 12.6 Other adverse effects

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



Air : No data available.  
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 : Liquid residue remaining in emptied package container.  
Transport trailer residues : Liquid residue from transport trailer cleaning.  
Absorbent material : Solid absorbent containing substance 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.  
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



# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



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 : No data available.

# CA3551 Pentaerythritol Monooleate

## Safety Data Sheet



### 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	: Substance is approved as an indirect food additive per 21CFR175.300.
	: Substance is approved as an indirect food additive per 21CFR175.320.
	: Substance is approved as an indirect food additive per 21CFR176.210.
	: OPS – this product is free from any substance prohibited from use in human food.

## SECTION 16: Other information

### 16.1 Hazard ratings

	Health	Flammability	Physical hazards	Instability
HMIS (USA)	1	1	0	
NFPA (USA)	1	1		0

### 16.2 Safety Data Sheet information

Revision date (MM/DD/YY)	: 06/12/2015
Supersede date (MM/DD/YY)	: 10/29/2009

### 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.