

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

#### 1.1. Product identifier

Product name : Chemence Anaseal RT20

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Anaerobic Sealant

#### 1.3. Details of the supplier of the safety data sheet

Chemence, Inc.  
 185 Bluegrass Valley Parkway  
 Alpharetta, GA 30005 - United States  
 T 770-664-6624; F 770-664-6620  
[CS@Chemence-US.com](mailto:CS@Chemence-US.com) - <http://www.Chemence-US.com>

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Irrit. 2 H315  
 Eye Irrit. 2A H319  
 Skin Sens. 1 H317  
 STOT SE 3 H335

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

P202 - Do not handle until all safety precautions have been read and understood  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
 P271 - Use only in a well-ventilated area  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337+P313 - If eye irritation persists: Get medical advice/attention  
 P362 - Take off contaminated clothing  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
 P501 - Dispose of contents/container to local, regional, national, and international regulations

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Full text of H-phrases: see section 16

#### 3.2. Mixture

**Hazardous ingredients:**

# Chemence Anaseal RT20

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
triethylene glycol dimethacrylate	(CAS No) 109-16-0	60 - 80	Eye Irrit. 2A, H319 Skin Sens. 1, H317
Lauryl methacrylate	(CAS No) 142-90-5	10 - 20	Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hydroxypropyl methacrylate	(CAS No) 27813-02-1	5 - 10	Skin Sens. 1, H317
Proprietary surfactant blend	Proprietary	1 - 5	Eye Dam. 1, H318
tert-butyl hydroperoxide	(CAS No) 75-91-2	0.1 - 1	Expl. 1.3, H203 Org. Perox. C, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411

### SECTION 4: First aid measures

#### Description of first aid measures

First-aid measures after inhalation	: Remove the victim into fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Remove contaminated clothing. If sticky, use a waterless cleaner first. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Immediately after ingestion: give lots of water to drink. Get immediate medical attention.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity	: No dangerous reactions known under normal conditions of use. Hazardous polymerization may occur if over catalyzed or insufficiently aerated after catalyzation. Polymerization is highly exothermic and may generate enough heat to cause thermal decomposition or fire if material is in contact with low flash point combustible material.
------------	--

#### 5.3. Advice for firefighters

Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

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

General measures	: Ensure adequate ventilation. Evacuate area.
------------------	---

##### 6.1.1. For non-emergency personnel

Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Keep suitable chemically resistant protective clothing readily available for emergency use.

##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate unnecessary personnel. Stop release. Ventilate area. Use appropriate personal protection equipment (PPE).

#### 6.2. Environmental precautions

Avoid release to the environment.

# Chemence Anaseal RT20

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 6.3. Methods and material for containment and cleaning up

For containment : Evacuate/limit access. Ensure adequate protective equipment. Remove all ignition sources. Plug sewer/public water outlets. Blanket large spill with firefighting foam and remove/recover. Absorb small spill with inert material (sand, sawdust, etc.) Store in partially filled closed container until disposal. Wash area.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapors and mist. Use only in a well-ventilated area. Use personal protective equipment as required. Avoid prolonged skin contact. Keep away from eyes.

Hygiene measures : Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a dry place sheltered from light and at temperatures below 30°C (86°F) Avoid flames and heat sources. Store in closed, properly vented containers. Keep away from strong oxidizers, direct sunlight, UV radiation and other initiators. Prevent long storage times.

Incompatible products : Oxidizing agent. Strong acids. Strong bases. High temperatures, direct sunlight, freezing temperatures and UV radiation.

## SECTION 8: Exposure controls/personal protection

### Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Provide adequate general and local exhaust ventilation. Eye wash station and safety shower should be available in immediate work area.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus. Chemical resistant boots and apron. Barrier creams recommended.

Materials for protective clothing : Wear fire/flammable resistant/retardant clothing.

Hand protection : Wear chemically resistant butyl rubber protective gloves.

Eye protection : Chemical goggles or safety glasses. Wear face mask when handling large quantities.

Skin and body protection : Protective clothing. Chemical resistant boots and apron.

Respiratory protection : Avoid breathing dust, mist or spray. Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless to straw liquid.

Colour : Clear, colorless to straw color.

Odour : Mild odour

Melting point : < 0 °C

Boiling point : N/A

Flash point : > 200 °F

Relative evaporation rate (butylacetate=1) : N/A

Vapour pressure : Low

Specific Gravity : 1.03

Solubility in water : Negligible.

VOC : <1.0%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. Polymerization may occur upon depletion of inhibitors.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization may occur if over catalyzed or insufficiently aerated after catalyzation. Polymerization is highly exothermic and may generate enough heat to cause thermal decomposition or fire if material is in contact with low flash point combustible material.

# Chemence Anaseal RT20

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.4. Conditions to avoid

High temperatures, direct sunlight, oxidizing conditions, freezing temperatures and UV radiation. Avoid temperature extremes and direct sunlight.

### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. fume.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>triethylene glycol dimethacrylate (109-16-0)</b>	
LD50 oral rat	10837 mg/kg (Rat)
ATE US (oral)	10837.000 mg/kg bodyweight
<b>hydroxypropyl methacrylate (27813-02-1)</b>	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)
<b>tert-butyl hydroperoxide (75-91-2)</b>	
LD50 oral rat	370 mg/kg (Rat)
LD50 dermal rat	790 mg/kg (Rat)
LD50 dermal rabbit	460 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	1.9 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	500 ppm/4h (Rat)
ATE US (oral)	370.000 mg/kg bodyweight
ATE US (dermal)	460.000 mg/kg bodyweight
ATE US (gases)	500.000 ppmv/4h
ATE US (vapours)	1.900 mg/l/4h
ATE US (dust,mist)	1.900 mg/l/4h

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>dodecyl methacrylate (142-90-5)</b>	
LC50 fish 1	> 1000 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	> 2 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	> 0.34 mg/l (96 h; Selenastrum capricornutum; Growth)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	0.06 mg/l (96 h; Selenastrum capricornutum; Biomass)
<b>hydroxypropyl methacrylate (27813-02-1)</b>	
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
<b>tert-butyl hydroperoxide (75-91-2)</b>	
LC50 fish 1	29 mg/l (LC50; 96 h)
EC50 Daphnia 2	20.1 mg/l (EC50; 48 h)

### 12.2. Persistence and degradability

<b>Chemence Anaseal RT20</b>	
Persistence and degradability	No data available.
<b>triethylene glycol dimethacrylate (109-16-0)</b>	
Persistence and degradability	Biodegradability in water: no data available. Forming sediments in water.
<b>dodecyl methacrylate (142-90-5)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
Chemical oxygen demand (COD)	2.438 g O <sub>2</sub> /g substance

# Chemence Anaseal RT20

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>dodecyl methacrylate (142-90-5)</b>	
ThOD	2.8 g O <sub>2</sub> /g substance
<b>hydroxypropyl methacrylate (27813-02-1)</b>	
Persistence and degradability	Readily biodegradable in water. No (test) data on mobility of the substance available.
<b>tert-butyl hydroperoxide (75-91-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
ThOD	1.95 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

<b>Chemence Anaseal RT20</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>triethylene glycol dimethacrylate (109-16-0)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>dodecyl methacrylate (142-90-5)</b>	
Log Pow	6.68
Bioaccumulative potential	No bioaccumulation data available.
<b>hydroxypropyl methacrylate (27813-02-1)</b>	
BCF fish 1	<= 100 (Pisces)
BCF fish 2	3.2 (Pisces; QSAR)
Log Pow	0.97 (OECD 102: Melting Point/Melting Range)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>tert-butyl hydroperoxide (75-91-2)</b>	
Log Pow	0.7
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Remove waste in accordance with local and/or national regulations.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Contaminated product/soil/water may be hazardous waste due to the potential for internal heat generation. Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids in systems that use compatible fuel. Incinerate following EPA and local regulations. Ensure emissions comply with regulations. Dilute aqueous waste may be biodegradable. Ensure effluent complies with applicable regulations

## SECTION 14: Transport information

In accordance with DOT : Not Regulated  
Proper Shipping Name : N/A  
Transport document description : N/A  
Hazard Class : N/A  
Packing Group : N/A  
UN-No.(DOT) : None  
DOT NA no. : N/A

### Additional information

ADR : Not Regulated  
Transport by sea : Not Regulated  
Air transport : Not Regulated

# Chemence Anaseal RT20

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Chemence Anaseal RT20	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
triethylene glycol dimethacrylate (109-16-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
dodecyl methacrylate (142-90-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
hydroxypropyl methacrylate (27813-02-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
tert-butyl hydroperoxide (75-91-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### 15.2. International regulations

##### CANADA

Chemence Anaseal RT20	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

STOT SE 3 H335

#### National regulations

No additional information available

#### 15.3. US State regulations

tert-butyl hydroperoxide (75-91-2)	
U.S. - New Jersey - Right to Know Hazardous Substance List	

### SECTION 16: Other information

Full text of H-phrases:

### SECTION 16: Other information

H203	Explosive; fire, blast or projection hazard
H242	Heating may cause a fire
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard

Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)

*This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.*

*Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Nothing herein shall be considered as recommending practices or products in violation of any patent, law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. WE MAKE NO WARRANTIES REGARDING THE PRODUCTS AND DISCLAIM ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.*