

## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

---

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

---

**Material Name**

Duct-Seal 321

Hardcast Duct Sealants and  
Insulation Adhesive spray  
HVAC**Synonyms**

Sealant

**Chemical Family**

Water based mastic

**Product Use**

Duct sealant

**Restrictions on Use**

For industrial use only

**Manufacturer Information**Carlisle HVAC Products  
900 Hensley Lane  
Wylie, TX 75098  
www.carlislehvac.com**Medical Emergency:****CHEMTREC (USA): (800) 424-9300**

MSDS Assistance – 972-442-6545

Technical Assistance – 888-229-2199

Customer Service – 888-229-0199

---

### Section 2 - HAZARDS IDENTIFICATION

---

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1 ( body, central nervous system, systemic toxicity, eyes )

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( eyes, central nervous system )

**GHS Label Elements****Symbol(s)****Signal Word**

Danger

## Safety Data Sheet

**Material Name: Duct-Seal 321****Product #:** 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal**Hazard Statement(s)**

May damage fertility or the unborn child  
Causes damage to organs  
Causes damage to organs through prolonged or repeated exposure

**Precautionary Statement(s)****Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust/fume/gas/mist/vapours/spray  
Wash thoroughly after handling  
Do not eat, drink or smoke when using this product

**Response**

If exposed: Call a POISON CENTER or doctor/physician  
Get medical advice/attention if you feel unwell  
Specific treatment (see label)

**Storage**

Store locked up

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations

**Statement of Unknown Toxicity**

86.9402% of the mixture consists of ingredient(s) of unknown acute toxicity.

**Other Hazards**

No additional information available.

---

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

---

| CAS          | Component Name                               | Percent |
|--------------|----------------------------------------------|---------|
| Trade Secret | De-foaming agent                             | 0.1-1   |
| Trade Secret | Nonylphenol polyethylene glycol ether        | 0.1-1   |
| Mixture      | Polymer, ethyl acrylate and methacrylic acid | 0.5-1.5 |
| Mixture      | Polycarboxylate salt                         | 0.1-1   |
| 107-21-1     | Ethylene glycol                              | 0.1-1   |
| Mixture      | Fuller's earth                               | 0.5-1.5 |

## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

|              |                         |       |
|--------------|-------------------------|-------|
| 7664-41-7    | Ammonia                 | 0.1-1 |
| 1317-65-3    | Limestone               | 15-40 |
| Trade Secret | Clay compound           | 1-5   |
| 67-56-1      | Methanol                | 1-5   |
| Mixture      | 4,4-Dimethyloxazolidine | 0.1-1 |
| Mixture      | Carbamic acid mixture   | 0.1-1 |

---

### Section 4 - FIRST AID MEASURES

---

**Description of Necessary Measures**

If exposed: Call a POISON CENTER or doctor/physician.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**Skin**

Wash exposed skin with soap and water. Remove contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.

**Eyes**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Ingestion**

Do NOT induce vomiting. If swallowed, get medical attention.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

**Most Important Symptoms/Effects****Acute**

Causes damage to central nervous system, body, eyes, systemic toxicity.

**Delayed**

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: eyes, central nervous system.

**Note to Physicians**

Contains: ethylene glycol, ammonia, methanol.



## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

---

### Section 5 - FIRE FIGHTING MEASURES

---

#### Extinguishing Media

##### Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

##### Unsuitable Extinguishing Media

None known.

#### Special Hazards Arising from the Chemical

Slight fire hazard. Sealed containers may rupture or explode if exposed to heat.

#### Hazardous Combustion Products

oxides of carbon, oxides of nitrogen, hydrocarbons

#### Advice for firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

#### Fire Fighting Measures

Remove product from area of fire. Stay upwind and keep out of low areas.

---

### Section 6 - ACCIDENTAL RELEASE MEASURES

---

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

#### Methods and Materials for Containment and Cleaning Up

Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

#### Environmental Precautions

Avoid release to the environment.

---

### Section 7 - HANDLING AND STORAGE

---

#### Precautions for Safe Handling

This product contains crystalline silica, which is a known carcinogen: Do not grind or sand. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.



# Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

### Conditions for Safe Storage, Including any Incompatibilities

Store locked up

Store in a well-ventilated place. Store above 0 C. Store below 45 C. When not in use, keep containers tightly closed. Do not cut, puncture, or weld on or near this container. Keep away from incompatible materials.

### Incompatible Materials

Strong acids, strong oxidizing agents

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

|                        |                                                          |                             |
|------------------------|----------------------------------------------------------|-----------------------------|
| <b>Ethylene glycol</b> | 107-21-1                                                 |                             |
| ACGIH:                 | 100 mg/m3 Ceiling aerosol only                           |                             |
| Europe:                | 20 ppm TWA; 52 mg/m3 TWA                                 | 40 ppm STEL; 104 mg/m3 STEL |
|                        | Possibility of significant uptake through the skin       |                             |
| Mexico:                | 100 mg/m3 Ceiling aerosol                                |                             |
|                        |                                                          |                             |
| <b>Ammonia</b>         | 7664-41-7                                                |                             |
| ACGIH:                 | 25 ppm TWA                                               | 35 ppm STEL                 |
| NIOSH:                 | 25 ppm TWA; 18 mg/m3 TWA                                 | 35 ppm STEL; 27 mg/m3 STEL  |
|                        | 300 ppm IDLH                                             |                             |
| Europe:                | 20 ppm TWA; 14 mg/m3 TWA                                 | 50 ppm STEL; 36 mg/m3 STEL  |
| OSHA (US):             | 50 ppm TWA; 35 mg/m3 TWA                                 |                             |
| Mexico:                | 25 ppm TWA LMPE-PPT; 18 mg/m3 TWA LMPE-PPT               |                             |
|                        | 35 ppm STEL [LMPE-CT]; 27 mg/m3 STEL [LMPE-CT]           |                             |
|                        |                                                          |                             |
| <b>Limestone</b>       | 1317-65-3                                                |                             |
| NIOSH:                 | 10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust     |                             |
| OSHA (US):             | 15 mg/m3 TWA total dust; 5 mg/m3 TWA respirable fraction |                             |
| Mexico:                | 10 mg/m3 TWA LMPE-PPT                                    | 20 mg/m3 STEL [LMPE-CT]     |
|                        |                                                          |                             |



# Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

|                      |                                                                                                                                              |                               |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Clay compound</b> | Trade Secret                                                                                                                                 |                               |
| ACGIH:               | 0.025 mg/m3 TWA respirable fraction                                                                                                          |                               |
| NIOSH:               | 0.05 mg/m3 TWA respirable dust                                                                                                               | 50 mg/m3 IDLH respirable dust |
| OSHA (US):           | ((30)/(%SiO2 + 2) mg/m3 TWA) total dust; ((250)/(%SiO2 + 5) mppcf TWA) respirable fraction; ((10)/(%SiO2 + 2) mg/m3 TWA) respirable fraction |                               |
| Mexico:              | 0.1 mg/m3 TWA LMPE-PPT respirable fraction                                                                                                   |                               |
|                      |                                                                                                                                              |                               |
| <b>Methanol</b>      | 67-56-1                                                                                                                                      |                               |
| ACGIH:               | 200 ppm TWA                                                                                                                                  | 250 ppm STEL                  |
|                      | Skin - potential significant contribution to overall exposure by the cutaneous route                                                         |                               |
| NIOSH:               | 200 ppm TWA; 260 mg/m3 TWA                                                                                                                   | 250 ppm STEL; 325 mg/m3 STEL  |
|                      | Potential for dermal absorption                                                                                                              |                               |
|                      | 6000 ppm IDLH                                                                                                                                |                               |
| Europe:              | 200 ppm TWA; 260 mg/m3 TWA                                                                                                                   |                               |
|                      | Possibility of significant uptake through the skin                                                                                           |                               |
| OSHA (US):           | 200 ppm TWA; 260 mg/m3 TWA                                                                                                                   |                               |
| Mexico:              | 200 ppm TWA LMPE-PPT; 260 mg/m3 TWA LMPE-PPT                                                                                                 |                               |
|                      | 250 ppm STEL [LMPE-CT]; 310 mg/m3 STEL [LMPE-CT]                                                                                             |                               |
|                      | Skin - potential for cutaneous absorption                                                                                                    |                               |

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide adequate ventilation. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear safety glasses or safety goggles, with a faceshield, as appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Skin Protection

Wear appropriate work clothing.

#### Respiratory Protection

A NIOSH approved respirator with a dust, mist, and fume filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits or when symptoms have been observed that are indicative of overexposure.

## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal**Glove Recommendations**

Wear appropriate gloves. Recommended material type: Hycron(R), neoprene, nitrile.

---

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

|                              |                        |                                               |                    |
|------------------------------|------------------------|-----------------------------------------------|--------------------|
| <b>Appearance</b>            | gray paste             | <b>Physical State</b>                         | solid              |
| <b>Odor</b>                  | Slight, ammonia        | <b>Color</b>                                  | gray               |
| <b>Odor Threshold</b>        | Not available          | <b>pH</b>                                     | 8.4 - 9.5          |
| <b>Melting Point</b>         | Not available          | <b>Boiling Point</b>                          | 212 °F             |
| <b>Freezing point</b>        | Not available          | <b>Evaporation Rate</b>                       | 28 - 32 % volatile |
| <b>Boiling Point Range</b>   | Not available          | <b>Flammability (solid, gas)</b>              | Not available      |
| <b>Autoignition</b>          | Not available          | <b>Flash Point</b>                            | Not available      |
| <b>Lower Explosive Limit</b> | Not available          | <b>Decomposition</b>                          | Not available      |
| <b>Upper Explosive Limit</b> | Not available          | <b>Vapor Pressure</b>                         | 17 mmHg (@ 20 °C)  |
| <b>Vapor Density (air=1)</b> | <1                     | <b>Specific Gravity (water=1)</b>             | Not available      |
| <b>Water Solubility</b>      | soluble                | <b>Partition coefficient: n-octanol/water</b> | Not available      |
| <b>Viscosity</b>             | >300 Kcps              | <b>Solubility (Other)</b>                     | Not available      |
| <b>Density</b>               | 1.34 - 1.41 (relative) | <b>VOC</b>                                    | 92 g/L             |

**Other Information**

No additional information available.

---

**Section 10 - STABILITY AND REACTIVITY**

---

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable under normal conditions of use.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.



## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### Incompatible Materials

strong acids, strong oxidizing agents.

### Hazardous decomposition products

Oxides of carbon, oxides of nitrogen, hydrocarbons

---

## Section 11 - TOXICOLOGICAL INFORMATION

---

### Information on Likely Routes of Exposure

#### Inhalation

May cause adverse effects on the central nervous system.

#### Skin Contact

May cause mild skin irritation.

#### Eye Contact

May cause mild eye irritation.

#### Ingestion

Methanol can produce blindness with onset of symptoms being delayed for 18-24 hours.

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Ethylene-vinyl acetate copolymer (Trade Secret)

Oral LD50 Rat >2000 mg/kg

Epoxidized soybean oil (Trade Secret)

Oral LD50 Rat >5 g/kg

Dermal LD50 Rabbit >20 mL/kg

De-foaming agent (Trade Secret)

Oral LD50 >2000 mg/kg

Nonylphenol polyethylene glycol ether (Trade Secret)

Oral LD50 Rat 2780 mg/kg

Chlorinated paraffins (Trade Secret)

Oral LD50 Rat >4 g/kg

Polymer, ethyl acrylate and methacrylic acid (Mixture)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >5000 mg/kg





## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

**Polycarboxylate salt (Mixture)**

Oral LD50 Rat >5000 mg/kg  
Dermal LD50 Rabbit >2000 mg/kg

**Ethylene glycol (107-21-1)**

Oral LD50 Rat 4700 mg/kg  
Dermal LD50 Rat 10600 mg/kg  
Inhalation LC50 Rat >200 mg/m<sup>3</sup> vapor 4 hr

**Ammonia (7664-41-7)**

Oral LD50 Rat 350 mg/kg  
Inhalation LC50 Rat 2000 ppm 4 h

**Limestone (1317-65-3)**

Oral LD50 Rat 6450 mg/kg

**Clay compound (Trade Secret)**

Oral LD50 Rat 500 mg/kg

**Methanol (67-56-1)**

Oral LD50 Rat 6200 mg/kg  
Inhalation LC50 Rat 22500 ppm 8 h

**4,4-Dimethyloxazolidine (Mixture)**

Oral LD50 Rat 1037 mg/kg  
Dermal LD50 Rat >2000 mg/kg  
Inhalation LC50 Rat 1.1 mg/L 4 hr

**Carbamic acid mixture (Mixture)**

Oral LD50 Rat >2000 mg/kg  
Dermal LD50 Rabbit >2000 mg/kg  
Inhalation LC50 Rat >2.04 mg/L 4 hr

**Immediate Effects**

Causes damage to central nervous system, body, eyes, systemic toxicity.

**Delayed Effects**

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: eyes, central nervous system.

**Irritation/Corrosivity Data**

May cause mild skin irritation. May cause mild eye irritation.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

## Safety Data Sheet

**Material Name: Duct-Seal 321**

**Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal**

**Component Carcinogenicity**

|                              |                                                                               |
|------------------------------|-------------------------------------------------------------------------------|
| <b>Chlorinated paraffins</b> | Trade Secret                                                                  |
| IARC:                        | Monograph 48 [1990] (Group 2B (possibly carcinogenic to humans))              |
| DFG:                         | Category 3B (could be carcinogenic for man)                                   |
| OSHA:                        | Present                                                                       |
| <b>Ethylene glycol</b>       | 107-21-1                                                                      |
| ACGIH:                       | A4 - Not Classifiable as a Human Carcinogen                                   |
| <b>Clay compound</b>         | Trade Secret                                                                  |
| ACGIH:                       | A2 - Suspected Human Carcinogen                                               |
| IARC:                        | Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans)) |
| NTP:                         | Known Human Carcinogen (respirable size)                                      |
| DFG:                         | Category 1 (causes cancer in man, alveola fraction)                           |
| OSHA:                        | Present (respirable size)                                                     |

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

Central nervous system, body, systemic toxicity, eyes

**Specific Target Organ Toxicity - Repeated Exposure**

Central nervous system, eyes

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

No data available.

**Additional Data**

This product contains crystalline silica, which is a known carcinogen. However, this component is bound by the polymer portion of the sealant. The only way this component would be released is through incineration. Therefore, this product is not considered a carcinogen.

## Safety Data Sheet

**Material Name: Duct-Seal 321**

**Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal**

### Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity**

|                                                     |                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ethylene-vinyl acetate copolymer</b>             | Trade Secret                                                                                                                                                                                                                                                                                                                     |
| Fish:                                               | LC50 96 hr Cyprinus carpio >1000 mg/L                                                                                                                                                                                                                                                                                            |
| <b>Epoxidized soybean oil</b>                       | Trade Secret                                                                                                                                                                                                                                                                                                                     |
| Fish:                                               | LC50 48 hr Fish 900 mg/L                                                                                                                                                                                                                                                                                                         |
| Algae:                                              | EC50 72 h Desmodosmus subspicatus 8 mg/L IUCLID                                                                                                                                                                                                                                                                                  |
| Invertebrate:                                       | Ec50 24 hr Daphnia >100 mg/L                                                                                                                                                                                                                                                                                                     |
| <b>Chlorinated paraffins</b>                        | Trade Secret                                                                                                                                                                                                                                                                                                                     |
| Fish:                                               | LC50 96 h Lepomis macrochirus >300 mg/L [static];<br>LC50 96 h Oncorhynchus mykiss >0.0109 mg/L [flow-through];<br>LC50 96 h Oncorhynchus mykiss 94.5 - 271 mg/L [static];<br>LC50 96 h Lepomis macrochirus >0.1 mg/L [flow-through];<br>LC50 96 h Pimephales promelas >100 mg/L [static]                                        |
| Invertebrate:                                       | EC50 48 hr Daphnia magna 0.0059 mg/L                                                                                                                                                                                                                                                                                             |
| <b>Polymer, ethyl acrylate and methacrylic acid</b> | Mixture                                                                                                                                                                                                                                                                                                                          |
| Fish:                                               | LC50 96 hr Pimephales promelas >1000 mg/L                                                                                                                                                                                                                                                                                        |
| Invertebrate:                                       | EC50 48 hr Daphnia magna >1000 mg/L                                                                                                                                                                                                                                                                                              |
| <b>Ethylene glycol</b>                              | 107-21-1                                                                                                                                                                                                                                                                                                                         |
| Fish:                                               | LC50 96 h Oncorhynchus mykiss 41000 mg/L;<br>LC50 96 h Oncorhynchus mykiss 14 - 18 mL/L [static];<br>LC50 96 h Lepomis macrochirus 27540 mg/L [static];<br>LC50 96 h Oncorhynchus mykiss 40761 mg/L [static];<br>LC50 96 h Pimephales promelas 40000 - 60000 mg/L [static];<br>LC50 96 h Poecilia reticulata 16000 mg/L [static] |

## Safety Data Sheet

**Material Name: Duct-Seal 321**

**Product #: 304159- 11 oz**  
**304158- 5 gal**  
**304157- 2 gal**  
**304156- 1 gal**

|                                |                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Algae:                         | EC50 96 h Pseudokirchneriella subcapitata 6500 - 13000 mg/L IUCLID                                                                                                                                                                                                                                                                                       |
| Invertebrate:                  | EC50 48 h Daphnia magna 46300 mg/L IUCLID                                                                                                                                                                                                                                                                                                                |
|                                |                                                                                                                                                                                                                                                                                                                                                          |
| <b>Ammonia</b>                 | 7664-41-7                                                                                                                                                                                                                                                                                                                                                |
| Fish:                          | LC50 96 h Cyprinus carpio 0.44 mg/L;<br>LC50 96 h Lepomis macrochirus 0.26 - 4.6 mg/L;<br>LC50 96 h Lepomis macrochirus 1.17 mg/L [flow-through];<br>LC50 96 h Pimephales promelas 0.73 - 2.35 mg/L;<br>LC50 96 h Pimephales promelas 5.9 mg/L [static];<br>LC50 96 h Poecilia reticulata >1.5 mg/L;<br>LC50 96 h Poecilia reticulata 1.19 mg/L [static] |
| Invertebrate:                  | LC50 48 h Daphnia magna 25.4 mg/L IUCLID                                                                                                                                                                                                                                                                                                                 |
|                                |                                                                                                                                                                                                                                                                                                                                                          |
| <b>Methanol</b>                | 67-56-1                                                                                                                                                                                                                                                                                                                                                  |
| Fish:                          | LC50 96 h Pimephales promelas 28200 mg/L [flow-through];<br>LC50 96 h Pimephales promelas >100 mg/L [static];<br>LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through];<br>LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static];<br>LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through]                                             |
|                                |                                                                                                                                                                                                                                                                                                                                                          |
| <b>4,4-Dimethyloxazolidine</b> | Mixture                                                                                                                                                                                                                                                                                                                                                  |
| Fish:                          | LC50 96 hr Rainbow trout 95 mg/L [flow-through]                                                                                                                                                                                                                                                                                                          |

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information available.

### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.



# Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

## Section 14 - TRANSPORT INFORMATION

**US DOT Information:**  
UN/NA #: Not regulated

**IATA Information:**  
UN#: Not regulated

**IMDG Information:**  
UN#: Not regulated

**TDG Information:**  
UN#: Not regulated

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

|                 |                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylene glycol | 107-21-1                                                                                                                                                                                             |
| SARA 313:       | 1 % de minimis concentration                                                                                                                                                                         |
| CERCLA:         | 5000 lb final RQ; 2270 kg final RQ                                                                                                                                                                   |
| Ammonia         | 7664-41-7                                                                                                                                                                                            |
| SARA 302:       | 500 lb TPQ                                                                                                                                                                                           |
| SARA 313:       | 1 % de minimis concentration (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing) |
| CERCLA:         | 100 lb final RQ; 45.4 kg final RQ                                                                                                                                                                    |
| OSHA (safety):  | 10000 lb TQ anhydrous); 15000 lb TQ solution, >44% Ammonia by weight)                                                                                                                                |
| SARA 304:       | 100 lb EPCRA RQ                                                                                                                                                                                      |
| Methanol        | 67-56-1                                                                                                                                                                                              |
| SARA 313:       | 1 % de minimis concentration                                                                                                                                                                         |
| CERCLA:         | 5000 lb final RQ; 2270 kg final RQ                                                                                                                                                                   |



# Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

|                       |                                  |
|-----------------------|----------------------------------|
| Carbamic acid mixture | Mixture                          |
| CERCLA:               | 10 lb final RQ; 4.54 kg final RQ |

### SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactivity: No

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

| Component             | CAS          | CA  | MA  | MN  | NJ  | PA  |
|-----------------------|--------------|-----|-----|-----|-----|-----|
| Chlorinated paraffins | Trade Secret | No  | Yes | No  | No  | No  |
| Ethylene glycol       | 107-21-1     | Yes | Yes | Yes | Yes | Yes |
| Ammonia               | 7664-41-7    | Yes | Yes | Yes | Yes | Yes |
| Limestone             | 1317-65-3    | No  | Yes | Yes | Yes | Yes |
| Clay compound         | Trade Secret | No  | Yes | Yes | Yes | Yes |
| Methanol              | 67-56-1      | Yes | Yes | Yes | Yes | Yes |
| Carbamic acid mixture | Mixture      | No  | No  | No  | Yes | No  |

### The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer  
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| Clay compound  | Trade Secret                                                              |
| Carc:          | carcinogen , initial date 10/1/88 (airborne particles of respirable size) |
| Methanol       | 67-56-1                                                                   |
| Repro/Dev. Tox | Developmental toxicity , initial date 3/16/12                             |

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

|                 |           |
|-----------------|-----------|
| Ethylene glycol | 107-21-1  |
|                 | 1 %       |
| Ammonia         | 7664-41-7 |
|                 | 1 %       |

# Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
 304158- 5 gal  
 304157- 2 gal  
 304156- 1 gal

|               |              |
|---------------|--------------|
| Clay compound | Trade Secret |
|               | 1 %          |
| Methanol      | 67-56-1      |
|               | 1 %          |

### Component Analysis - Inventory

Ethylene-vinyl acetate copolymer (Trade Secret)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | ELN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

Epoxidized soybean oil (Trade Secret)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | No        | No        | Yes            | No        | Yes | Yes | Yes |

Nonylphenol polyethylene glycol ether (Trade Secret)

| US  | CA  | EU | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|----|
| Yes | DSL | No | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | No |

Chlorinated paraffins (Trade Secret)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

Polymer, ethyl acrylate and methacrylic acid (Mixture)

| US  | CA  | EU | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | No | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

Ethylene glycol (107-21-1)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

## Safety Data Sheet

**Material Name: Duct-Seal 321**

**Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal**

**Fuller's earth (Mixture)**

| US  | CA  | EU | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | No | Yes | Yes | No        | No        | Yes            | No        | Yes | Yes | Yes |

**Ammonia (7664-41-7)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

**Limestone (1317-65-3)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | NSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

**Clay compound (Trade Secret)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

**Kaolin, calcined (Trade Secret)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

**Methanol (67-56-1)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

**4,4-Dimethyloxazolidine (Mixture)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | Yes       | Yes            | No        | Yes | Yes | Yes |





# Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

Carbamic acid mixture (Mixture)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | Yes       | Yes            | No        | Yes | Yes | Yes |

## Section 16 - OTHER INFORMATION

### HMIS Rating

Health: 1\* Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### NFPA Ratings

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Summary of Changes

New SDS: April 1, 2015

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.



## Safety Data Sheet

Material Name: Duct-Seal 321

Product #: 304159- 11 oz  
304158- 5 gal  
304157- 2 gal  
304156- 1 gal

### Other Information

#### Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, CCWI Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.