

1. IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: Silicone Foam and Metal Spacer I.G. Sealant

Product Code: 877

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Sealant

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

Name/Address: C.R Laurence Co., Inc.
2503 E. Vernon Ave.
Los Angeles, CA. 90058

Telephone Number: (800 421-6144)

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: CHEMTREC 1-800-424-9300 (US and Canada)
INTERNATIONAL + 1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR 1910.1200 (OSHA HAZCOM2012)

| | |
|-----------------------|-------------|
| Eye Irritation | Category 2A |
| Skin Sensitization | Category 1 |
| Carcinogenicity | Category 1A |
| Reproductive Toxicity | Category 1B |

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

2.2a SIGNAL WORD:
DANGER!

2.2b HAZARD STATEMENTS
Causes serious eye irritation
May cause an allergic skin reaction
May cause cancer
May damage fertility or the unborn child

2. HAZARDS IDENTIFICATION (CONT.)

2.2c HAZARD PICTOGRAMS



2.2d PRECAUTIONARY STATEMENTS

| | |
|----------------------|--|
| i. PREVENTION | Wash hands thoroughly after handling. Do not breathe vapors/fumes. Do not eat, drink or smoke while using this product. Use in a well ventilated area. Wear impervious gloves/protective clothing/eye protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing must not be allowed out of the workplace. |
| ii. RESPONSE | If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical advice/attention. |
| iii. STORAGE | Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| iv. DISPOSAL | Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations. |

2.3 ADDITIONAL INFORMATION

2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED

Not Applicable

2.3b UNKNOWN ACUTE TOXICITY

40.8% of the mixture consists of ingredient(s) of unknown acute toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

| Chemical Name | CAS Number | Weight % |
|---------------------------------|-------------|-------------|
| Calcium Carbonate** | 1317-65-3 | 30 – 60%* |
| Silyl Terminated Polyethers | Proprietary | 10 – 30%* |
| Trimethoxyvinylsilane | 2768-02-7 | 0.5 – 1.5%* |
| Aminoalkoxysilane | 1760-24-3 | 0.5 – 1.5%* |
| Dibutyltin bis(acetylacetonate) | 22673-19-4 | 0.1 – 1.0%* |

3. COMPOSITION/INFORMATION ON INGREDIENTS (CONT.)

| | | |
|------------------------------|------------|-------------|
| Crystalline Silica, Quartz** | 14808-60-7 | 0.1 – 1.0%* |
|------------------------------|------------|-------------|

**Inhalation of particulates unlikely due to product's physical state.

*Means that the component will fall into one of the ranges specified due to batch-to-batch variability and to protect Confidential Business Information.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF THE FIRST-AID MEASURES

| ROUTES OF EXPOSURE | DESCRIPTION |
|----------------------|---|
| Eye Contact: | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately. |
| Skin Contact: | In case of contact, immediately flush skin with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: get medical attention/advice. Take off contaminated clothing and wash before reuse. |
| Inhalation: | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |
| Ingestion: | If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention. |

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

| ROUTES OF EXPOSURE | DESCRIPTION |
|----------------------|---|
| Eye Contact: | Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Skin Contact: | May cause skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction. |
| Inhalation: | May cause respiratory tract irritation. May cause damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease. |
| Ingestion: | May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting. |

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Note to Physicians: Symptoms may not appear immediately.

4. FIRST AID MEASURES (CONT.)

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

5. FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

Flammability: Not Flammable/Not Combustible by WHMIS/OSHA HAZCOM2012 Criteria

5.2 EXTINGUISHING MEDIA

5.2a. Suitable Extinguishing Media:
Treat for surrounding material.

5.2b. Unsuitable Extinguishing Media:
Water

5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

5.3a. Products of Combustion:
By heating and fire, harmful vapors/gases may be formed. Nitrogen Oxides(corrosive)

5.3b. Explosion Data

- i. **Sensitivity to Mechanical Impact:**
Not Available
- ii. **Sensitivity to Static Discharge:**
Not Available

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment: Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

- Handling:** Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe vapors/fumes. Do not take internally.
- General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Storage:** Store locked up. Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETER

Exposure Guidelines:

| Occupational Exposure Limits | | |
|---------------------------------|---|---------------------------------|
| Chemical Name | OSHA-PEL | ACGIH-TLV |
| Calcium Carbonate** | 5 mg/m ³ (Resp.) 15 mg/m ³ (Total) | 5 mg/m ³ (Resp.) |
| Silyl Terminated Polyethers | Not Available | Not Available |
| Trimethoxyvinylsilane | Not Available | Not Available |
| Aminoalkoxysilane | Not Available | Not Available |
| Dibutyltin bis(acetylacetonate) | 0.1 mg/m ³ | 0.1 mg/m ³ |
| Crystalline Silica, Quartz** | 0.05 mg/m ³ | 0.025 mg/m ³ (Resp.) |

**Inhalation of particulates unlikely due to product's physical state.

8.2 EXPOSURE CONTROLS

- Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTION MEASURES

8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. **Skin Protection:**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)

1. **Hand Protection:** Wear impervious gloves, such as nitrile.
2. **Body Protection:** Wear suitable protective clothing.
- iii. **Respiratory Protection:** A NIOSH approved respirator or filtering face piece, such as N95, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
- iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance (physical state, color, etc.): | Opaque Paste |
| Odor: | Mint-like |
| Odor Threshold: | Mild |
| pH: | 7 - 8 |
| Melting point/Freezing point: | Not Available |
| Initial boiling point and boiling range: | Not Available |
| Flash point: | Not Available |
| Evaporation rate (Water=1): | Not Available |
| Flammability: | Not Flammable/Not Combustible |
| Upper Flammability/Explosive Limit: | Not Available |
| Lower Flammability/Explosive Limit: | Not Available |
| Vapor Pressure | Not Available |
| Vapor Density: | Not Available |
| Relative Density: | 1.65 – 1.85 g/mL |
| Solubility in Water: | Insoluble |
| Partition coefficient: n-octanol/water: | Not Available |
| Auto-ignition temperature: | Not Available |
| Decomposition Temperature: | Not Available |
| Viscosity (cps): | Approximately 1,000,000 cP |
| VOC Content: | <16 g/L, less water and exempt solvents |

10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

10.3. POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

10: STABILITY AND REACTIVITY (CONT.)

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents. Water and moisture.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides. Nitrogen Oxides (NOx). Aldehydes. Methanol.

11: TOXICOLOGICAL INFORMATION

11.1. LIKELY ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

Eye Contact: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin Contact: May cause skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.

Inhalation: May cause respiratory tract irritation. May cause damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

| Acute Toxicity (ATE _{mix} = 5,889 mg/kg) | | |
|---|---------------|--------------------------|
| Chemical Name | LC50 | LD50 |
| Calcium Carbonate | Not Available | Oral: 6,450 mg/kg, rat |
| Silyl Terminated Polyethers | Not Available | Not Available |
| Trimethoxyvinylsilane | Not Available | Oral: >7,000 mg/kg, rat |
| Aminoalkoxysilane | Not Available | Oral: >7,500 mg/kg, rat |
| Dibutyltin bis(acetylacetonate) | Not Available | Oral: 1,864 mg/kg, rat |
| Crystalline Silica, Quartz | Not Available | Oral: >10,000 mg/kg, rat |

| Carcinogenicity | |
|---------------------------------|---|
| Chemical Name | Chemical Listed as Carcinogens or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65) |
| Calcium Carbonate | Not Listed |
| Silyl Terminated Polyethers | Not Listed |
| Trimethoxyvinylsilane | Not Listed |
| Aminoalkoxysilane | Not Listed |
| Dibutyltin bis(acetylacetonate) | Not Listed |
| Crystalline Silica, Quartz | N-2, I-1, O-1, ACGIH-A2, CP65 |

11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

11: TOXICOLOGICAL INFORMATION (CONT.)

| SHORT-TERM | |
|--|--|
| Skin Corrosion/Irritation: | May cause skin irritation |
| Serious Eye Damage/Irritation: | Causes serious eye irritation |
| Respiratory Sensitization: | Not Classified |
| Skin Sensitization: | May cause an allergic skin reaction |
| STOT-Single Exposure: | May cause respiratory irritation |
| Aspiration Hazard: | Not Classified |
| LONG-TERM | |
| Carcinogenicity: | May cause cancer |
| Germ Cell Mutagenicity: | Not Classified |
| Reproductive Toxicity: | May damage fertility or the unborn child |
| STOT-Repeated Exposure: | Not Classified |
| Synergistic/Antagonistic Effects: | Not Classified |

12: ECOLOGICAL INFORMATION

12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

| Chemical Name | Ecotoxicity | |
|---------------------------------|----------------------------|-----------------------------|
| | EC50/NOEC-48 Hours | LC50/NOEC-96 Hours |
| Calcium Carbonate | Not Available | Not Available |
| Silyl Terminated Polyethers | Not Available | Not Available |
| Trimethoxyvinylsilane | 168.7 mg/L, Daphnia magna | 597 mg/L, Brachydanio rerio |
| Aminoalkoxysilane | 81 mg/L, Daphnia magna | 597 mg/L, Brachydanio rerio |
| Dibutyltin bis(acetylacetonate) | 0.0036 mg/L, Daphnia magna | Not Available |
| Crystalline Silica, Quartz | Not Available | Not Available |

12.2. PERSISTENCE AND DEGRADABILITY

Not Available

12.3. BIOACCUMULATIVE POTENTIAL

Not Available

12.4. MOBILITY IN SOIL

Not Available

12.5. OTHER ADVERSE EFFECTS

Not Available

13: DISPOSAL CONSIDERATIONS

13.1. DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

13.2. OTHER DISPOSAL CONSIDERATIONS

Not Available

14: TRANSPORT INFORMATION

| DOT (U.S.) | TDG (CANADA) | IATA |
|--|--|--|
| UN NUMBER: Not Regulated | UN NUMBER: Not Regulated | UN NUMBER: Not Regulated |
| UN PROPER SHIPPING NAME: Not Regulated | UN PROPER SHIPPING NAME: Not Regulated | UN PROPER SHIPPING NAME: Not Regulated |
| TRANSPORT HAZARD CLASS (ES): Not Regulated | TRANSPORT HAZARD CLASS (ES): Not Regulated | TRANSPORT HAZARD CLASS (ES): Not Regulated |
| PACKING GROUP (if applicable): Not Regulated | PACKING GROUP (if applicable): Not Regulated | PACKING GROUP (if applicable): Not Regulated |

SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.

14.1. ENVIRONMENTAL HAZARDS

Not Available

14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Available

14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012


15.2. US FEDERAL INFORMATION:

| CHEMICAL NAME | SARA TITLE III | | | |
|---------------------------------|-----------------------------|--------------------------|-----------------|-------------------|
| | SECTION 302 (EHS) TPQ (LBS) | SECTION 304 EHS RQ (LBS) | CERCLA RQ (LBS) | SECTION 313 (TRI) |
| Calcium Carbonate | Not Listed | Not Listed | Not Listed | Not Listed |
| Silyl Terminated Polyethers | Not Listed | Not Listed | Not Listed | Not Listed |
| Trimethoxyvinylsilane | Not Listed | Not Listed | Not Listed | Not Listed |
| Aminoalkoxysilane | Not Listed | Not Listed | Not Listed | Not Listed |
| Dibutyltin bis(acetylacetonate) | Not Listed | Not Listed | Not Listed | Not Listed |

15: REGULATORY INFORMATION (CONT.)

| | | | | |
|----------------------------|------------|------------|------------|------------|
| Crystalline Silica, Quartz | Not Listed | Not Listed | Not Listed | Not Listed |
|----------------------------|------------|------------|------------|------------|

15.3. US STATE RIGHT TO KNOW LAWS:

| | |
|---|--|
| California Proposition 65: |  WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| Other U.S. States "Right to Know" Lists: | Calcium Carbonate: CAS#1317-65-3 Silyl Terminated Polyethers: CAS# N/A Trimethoxyvinylsilane: CAS#2768-02-7 Aminoalkoxysilane: CAS#1760-24-3 Dibutyltin bis(acetylacetonate): CAS#22673-19-4 Crystalline Silica, Quartz: CAS#14808-60-7 |

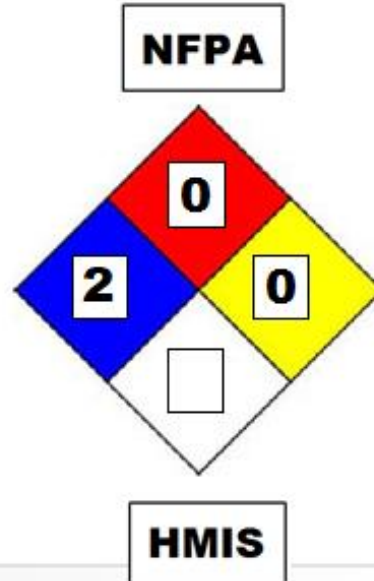
15.4. GLOBAL INVENTORIES

| Chemical Name | USA TSCA | Canada DSL/NDSL |
|---------------------------------|----------|-----------------|
| Calcium Carbonate | Yes | NDSL |
| Silyl Terminated Polyethers | Yes | DSL |
| Trimethoxyvinylsilane | Yes | DSL |
| Aminoalkoxysilane | Yes | DSL |
| Dibutyltin bis(acetylacetonate) | Yes | DSL |
| Crystalline Silica, Quartz | Yes | DSL |

15: REGULATORY INFORMATION (CONT.)

15.5. NFPA AND HMIS RATINGS:

| | |
|--|--|
| HEALTH HAZARD 4 EXTREME - Highly toxic. May be fatal on short-term exposure. 3 SERIOUS - Toxic. Full protective suit and breathing apparatus should be worn. 2 MODERATE - Breathing apparatus and face mask must be worn. 1 SLIGHT - Breathing apparatus may be worn. 0 MINIMAL - No precautions necessary. | FLAMMABILITY HAZARD 4 EXTREME - Extremely flammable gas or liquid. Flash Point below 72°F. 3 SERIOUS - Flammable. Flash Point 73°F to 300°F. 2 MODERATE - Combustible. Requires moderate heating to ignite. Flash Point below 200°F. 1 SLIGHT - Slightly combustible. Requires strong heating to ignite. 0 MINIMAL - Will not burn under normal conditions. |
| SPECIFIC HAZARD OXIDIZER OX ACID AC ALKALI AL CORROSIVE CO Use NO WATER W RADIATION R | INSTABILITY HAZARD 4 EXTREME - Explosive at room temperature. 3 SERIOUS - May detonate if shocked or heated under confinement or mixed with water. 2 MODERATE - Unstable. May react with water. 1 SLIGHT - May react if heated or mixed with water. 0 MINIMAL - Normally stable. Does not react with water. |



| Hazard Index | |
|--------------|-----------------|
| 4 | Severe Hazard |
| 3 | Serious Hazard |
| 2 | Moderate Hazard |
| 1 | Slight Hazard |

| | | |
|------------------------------|-----------------------------------|---|
| 2 HEALTH | PROTECTIVE EQUIPMENT INDEX | |
| 0 FLAMMABILITY | A | G |
| 0 REACTIVITY | B | H |
| X PERSONAL PROTECTION | C | I |
| | D | J |
| | E | K |
| | F | X Ask your supervisor for special handling instructions. |

15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

| | |
|------------------|--|
| CP65 | California Proposition 65 |
| OSHA (O) | Occupational Safety and Health Administration |
| ACGIH (G) | American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> • A1 – Confirmed human carcinogen • A2 – Suspected human carcinogen • A3 – Animal carcinogen • A4 – Not classifiable as a human carcinogen • A5 – Not suspected a human carcinogen |
| IARC (I) | International Agency for Research on Cancer <ul style="list-style-type: none"> • 1 – The agent (mixture) is carcinogenic to humans • 2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals. |

15: REGULATORY INFORMATION (CONT.)

| | |
|----------------|--|
| | <ul style="list-style-type: none"> • 2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals. • 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans. • 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans. |
| NTP (N) | National Toxicology Program <ul style="list-style-type: none"> • 1 – Known to be carcinogens • 2 – Reasonably anticipated to be carcinogens |

16: OTHER INFORMATION

Date of Preparation: April 23, 2015

Version: 1.2

Revision Date: June 23, 2020

Disclaimer: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by: C.R Laurence Co., Inc.
Phone: (800) 421-6144
<http://www.crlaurence.com>