**SECTION 15. REGULATORY INFORMATION (CONT'D)**

**CLEAN AIR ACT:** Crystalline silica (quartz) used by Omega Engineering Inc. is not processed with or does not contain any Class I or Class II ozone depleting substances.

**FDA:** Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR 175.300(b) (3) (xxvi).

**NTP:** Respirable crystalline silica, primarily quartz ducts occurring in industrial and occupational settings, is classified as known to be a human carcinogen.

**OSHA CARCINOGEN:** Crystalline silica (quartz) is not listed

**CALIFORNIA PROPOSITION 65:** WARNING: This product contains a chemical, crystalline silica, known to the state of California and other states and regional authorities to cause cancer.

**CALIFORNIA INHALATION REFERENCE EXPOSURE LEVEL (REL):** California established a chronic REL of 3 ug for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**MASSACHUSETTS TOXIC USE REDUCTION ACT:** Silica, Crystalline (respirable size, <10 microns) is toxic for purposes of the Massachusetts Toxic Use Reduction Act.

**PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT:** Quartz is a hazardous substance under the act, but is not a special hazardous substance or an environment hazardous substance.

**EEC RISK** Phrases: R23/24/25 Toxic by inhalation, and in contact with skin if swallowed R36/37/38 Irritating to eyes, respiratory system, and skin. R40 Limited evidence of a carcinogenic effect.

**HARMFUL:** R48/20 Danger of serious damage to health by prolonged exposure

**EEC SAFETY PHRASES:** S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves, and eye and face protection. S38 In case of insufficient ventilation, wear suitable respiratory equipment. S7/8 Keep container tightly closed and dry.

**SECTION 16. OTHER INFORMATION**

This MSDS contains information and recommendations based upon our present knowledge and data believed to be reliable. All data shown here are subject to reasonable variation and are supplied as an accommodation to the buyer. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This MSDS applies only to the product in its “as manufactured” state, since the application to which the product is subjected may change its characteristics. The buyer is responsible for determining the safety, toxicity, and suitability of the product under the conditions of their use of the product. Buyers also have the responsibility for insuring that the MSDS is available to their employees, product users, and handlers.

**NAV = Not Available**  **NE = Not Established**  **NA = Not Applicable**  **ND = Not Determined**  **EV = Under Evaluation**

The information contained herein is based upon data considered true and accurate. However, OMEGA makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user’s consideration, investigation and verification. Since the use and conditions of use of this information and the material described herein are not within the control of OMEGA, OMEGA assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to OMEGA’s Terms and Conditions of Sale, including those limiting warranties and remedies contained herein, it is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.
SECTION 3. HAZARDS IDENTIFICATION (CONT'D)

THRESHOLD LIMIT VALUE: SiO2 - 0.1 mg/m³; F² - 2.5 mg/m³

EFFECTS OF OVEREXPOSURE: Since this product is a mixture, there is no exposure limit established for it. Hazardous components and their associated permissible exposure limits are listed in the section titled “Composition and Data on Components”. Specific health hazards from the various ingredients include relevant symptoms: irritation to eyes, nose, throat, respiratory system, and skin areas.

ACUTE: Inorganic fluorides are highly irritating and toxic. May cause irritation to respiratory tract, skin, and eyes. Large doses can cause nausea, vomiting, and diarrhea. Circulatory, respiratory complaints, and skin rashes may occur. Respiratory diseases including asthma and emphysema may be aggravated.

CHRONIC: Exposure to fluorides over years may produce an embrittlement and densification of bones, and increase calcification of ligaments. Repeated inhalation of respirable free silica dust may cause delayed lung injury (silicosis).

SECTION 4. FIRST AID MEASURES

EYE CONTACT: Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

INGESTION: Seek medical attention immediately. Give water to dilute. Do not induce vomiting unless directed by licensed medical personnel. Advise physician of possible fluoride exposure.

INHALATION: If difficulty breathing, move to fresh air at once. Apply artificial respiration if breathing has stopped. Seek medical attention.

SKIN CONTACT: Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.

SECTION 5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE: NA

EXPLOSION DATA: Not sensitive to mechanical impact or static discharge.

EXTINGUISHING MEDIA: NA

NOTE: Many dusts and aerosols may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care to avoid causing dusting or misting operation such as grinding or drilling.

FIRE AND EXPLOSION HAZARDS: NA

FIRE FIGHTING PROCEDURES: NA

FLAMMABILITY: Not flammable in presence of open flame, sparks, excessive heat and static discharge.

FLAMMABLE LIMITS LEL: NA

FLAMMABLE LIMITS UEL: NA

FLASHPOINT: NA

SECTION 14. TRANSPORT INFORMATION

Crystalline silica (quartz) is not a hazardous material for purposes of transportation under the U. S. Department of Transportation Table of Hazardous Materials, 49 CFR 172.101. DOT I.D. NO.: NOT REGULATED DOT SHIPPING NAME: NA DOT HAZARD CLASS: NOT REGULATED DOT LABEL: NONE OTHER: NA NMF CLASSIFICATION: High Temperature Bonding Mortar

SECTION 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA Status: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None above detection limits.
Section 311/312 (40 CFR 370) Hazardous Categories: Carcinogen, Irritant

There are no listed chemicals above detection limits in this compound.

CERCLA: The RQ for release of sodium silicofluoride is 1,000 pounds.

STATE REGULATIONS:

California: Proposition 65 substances (components) known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the “Safe Drinking Act of 1986”. It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low levels prescribed in the regulations. Therefore, it is the user’s responsibility to determine if the percent of hazardous/carcinogenic ingredients listed elsewhere in the MSDS comply with State of California regulations.

CANADA

DSL: Components included on inventory.

WHMIS HAZARD CLASS (ES): Class D, Division 2, Subdivision A: Materials cause other toxic effects, very toxic material.

WHMIS TRADE SECRET REGISTRY NUMBER(S): Not Applicable

WHMIS SYMBOLS: Stylized T

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS Inventory: Components included on inventory

ECC SYMBOL(S): Toxic, Irritant, Harmful

EINECS NO.: 238-878-4

IARC: Crystalline silica (quartz) is classified in IARC Group 1.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under section 302 and it is not a toxic chemical subject to the requirements of section 313.
MATERIAL SAFETY DATASHEET

SECTION 11. TOXICOLOGICAL INFORMATION (CONT’D)

NTP: The National Toxicology Program, in its Ninth Annual Report on Carcinogens, classified “silica, crystalline (respirable)” as a known human carcinogen.

OSHA: Crystalline Silica (Quartz) is not regulated by the US Occupational Safety and Health Administration as a carcinogen.

C. Autoimmune Diseases: Several studies have reported excess cases of several autoimmune disorders - scleroderma, systemic lupus erythematosus, rheumatoid arthritis - among silica-exposed workers. For a review of the subject, the following may be consulted: “Occupational Exposure to Crystalline Silica and Autoimmune Disease”, Environmental Health Perspectives, Volume 107, Supplement 5, pp. 793-802 (1999); “Occupational Scleroderma”, Current opinion in Rheumatology, Volume 11, pp. 490-494, (1999).


E. Kidney Disease: Several studies have reported excess cases of kidney diseases, including end stage renal disease, among silica-exposed workers. For additional information on the subject, the following may be consulted: “Kidney Disease and Silicosis”, Nephron, Volume 85, pp. 14-19 (2000).

F. Non-Malignant Respiratory Diseases: The reader is referred to section 3.5 of the NIOSH special hazard review cited below, for information concerning the association between exposure to crystalline silica and chronic bronchitis, emphysema, and small airways disease. There are studies that disclose an association between dusts found in various mining operations and non-malignant respiratory diseases, particularly among smokers. It is unclear whether the observed associations exists only with underlying silicosis, only among smokers, or result from exposure to mineral dusts generally (independent of the presence or absence of crystalline silica, or the level of crystalline silica in dust).

SECTION 12. ECOLOGICAL INFORMATION

Crystalline silica (quartz) is not known to be an environmental hazard. Fluorides can be toxic to aquatic and terrestrial flora and fauna. Crystalline silica (quartz) is not known to be ecotoxic; i.e., there are no data that suggests that crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants.

SECTION 13. DISPOSAL CONSIDERATIONS

GENERAL: The packaging and material may be landfilled; however, material should be covered to minimize generation of airborne dust.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

WASTE DISPOSAL: Sweep up excess; flush area with large quantities of water. Material could be disposed of in approved landfill according to Federal, state, and local regulations.

EUROPEAN COMMUNITY WASTE DISPOSAL KEY: Not known

UNCLEANED PACKAGINGS: Disposal must be made according to official regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP PROCEDURE: Sweep, scoop, or vacuum the discharged material. Respiratory protection should be worn at all times and skin contact should be avoided. Observe environmental regulations.

SECTION 7. HANDLING AND STORAGE

Avoid contact with eyes, skin, and clothing.
Avoid breathing dust.
For industrial use only!
Harmful if inhaled.
Do not take internally.
May cause irritation.
Wear chemical splash goggles, gloves, and protective clothing.
Use adequate ventilation and employ respiratory protection where dust or fumes may be generated.
Wash thoroughly after handling.

STORAGE: Store in a cool, dry place. Keep container closed when not in use. Always mix well before using.

HANDLING: Do not breathe dust. Keep airborne dust concentrations below permissible exposure limit ("PEL"). Do not rely on your sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

See Section 2 for the components that have limit values that require monitoring at the workplace.

This product contains encapsulated silica. By OSHA letter of interpretation, the silica is not considered respirable in either the cement paste form or cured cement form. However, if the cured cement is polished, ground or chipped during processing, handing or use, the silica may be released as an airborne respirable particle. In these instances appropriate personal protection equipment and local ventilation controls must be employed.

Crystalline Silica (Quartz) - ACGIH TLV/TWA - 0.025 mg/m3 - NIOSH REL/TWA 0.025 mg/m3
The OSHA PEL for crystalline silica as tridymite or cristobalite is one half of the OSHA PEL for crystalline silica (quartz).

EYE PROTECTION: Safety glasses with side shields, chemical-type goggles, or face shield. Contact lenses should not be worn.

RESPIRATORY PROTECTION: Use dust respirators in compliance with OSHA Standard 1910.134. For emergency, a self-contained positive pressure, breathing apparatus or full-face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.
SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONT’D)

SKIN PROTECTION: Suitable protective gloves (neoprene, butyl rubber, or FKM). Clothing should be clean, long-sleeved work clothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

VENTILATION: Normal ventilation for good working conditions should be used.

OTHER PRECAUTIONS: Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

% VOLATILE BY VOLUME: NA
APPEARANCE AND ODOR: Fine to coarse, whitish, free flowing, odorless powder.
BOILING POINT: NA
COEFFICIENT OF WATER/OIL DISTRIBUTION: NA
EVAPORATION RATE: NA
MELTING POINT: NE
ODOR THRESHOLD: Not available
pH: NA
SPECIFIC GRAVITY: 2.75
SOLUBILITY IN WATER: <1%
VAPOR DENSITY: NA
VAPOR PRESSURE: NA

SECTION 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen fluoride gas
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY: (Materials to avoid) Strong acids and acid vapors
STABILITY: Stable under ordinary conditions of use and storage.

SECTION 11. TOXICOLOGICAL INFORMATION

ACGIH NOT AVAILABLE
IARC YES
EF"}

"EFFECTS OF ACUTE EXPOSURE: Refer to Section 3.
EFFECTS OF CHRONIC EXPOSURE: Refer to Section 3.
MUTAGENIC EFFECTS: If not addressed in Section 3, the data is not available.
REPRODUCTIVE TOXICITY: If not addressed in Section 3, the data is not available.
TERATOGENIC EFFECTS: If not addressed in Section 3, the data is not available.
NAME(S) OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS AND EFFECTS: If not addressed in Section 3, data is not available.
MATERIAL SAFETY DATASHEET

One Omega Drive
Stamford, CT 06907-0047
omega.com
e-mail: info@omega.com

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONT’D)

SKIN PROTECTION: Suitable protective gloves (neoprene, butyl rubber, or FKM). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

VENTILATION: Normal ventilation for good working conditions should be used.

OTHER PRECAUTIONS: Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

% VOLATILE BY VOLUME: NA
APPEARANCE AND ODOR: Fine to coarse, whitish, free flowing, odorless powder.
BOILING POINT: NA
COEFFICIENT OF WATER/OIL DISTRIBUTION: NA
EVAPORATION RATE: NA
MELTING POINT: NE
ODOR THRESHOLD: Not available
pH: NA
SPECIFIC GRAVITY: 2.75
SOLUBILITY IN WATER: <1%
VAPOR DENSITY: NA
VAPOR PRESSURE: NA

SECTION 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen fluoride gas
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY: (Materials to avoid) Strong acids and acid vapors
STABILITY: Stable under ordinary conditions of use and storage.

SECTION 11. TOXICOLOGICAL INFORMATION

ACGIH NOT AVAILABLE
IARC YES

EFFECTS OF ACUTE EXPOSURE: Refer to Section 3.
EFFECTS OF CHRONIC EXPOSURE: Refer to Section 3.

MUTAGENIC EFFECTS: If not addressed in Section 3, the data is not available.
REPRODUCTIVE TOXICITY: If not addressed in Section 3, the data is not available.
TERATOGENIC EFFECTS: If not addressed in Section 3, the data is not available.

NAME(S) OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS AND EFFECTS: If not addressed in Section 3, data is not available.

ADDITIONAL INFORMATION:

Fluoride - the acute lethal oral toxicity for rats is about 125mg/kg or body weight.

The LD50 (oral, rat) for sodium silicate is reported to be in the range 1300-1600 mg/kg. depending on the ratio.

Inhalation: The acute lethal oral toxicity for rats is about 125mg/kg or body weight.

MATERIAL SAFETY DATASHEET

MSDS-0145P
OB-500P
Rev. Date 01/24/10
Supersedes: 02/10/09
One Omega Drive
Stamford, CT 06907-0047
omega.com
e-mail: info@omega.com

SECTION 11. TOXICOLOGICAL INFORMATION (CONT’D)

NTP: The National Toxicology Program, in its Ninth Annual Report on Carcinogens, classified “silica, crystalline (respirable)” as a known human carcinogen.

OSHA: Crystalline Silica (Quartz) is not regulated by the US Occupational Safety and Health Administration as a carcinogen.

C. Autoimmune Diseases: Several studies have reported excess cases of several autoimmune disorders - scleroderma, systemic lupus erythematosus, rheumatoid arthritis - among silica-exposed workers. For a review of the subject, the following may be consulted: “Occupational Exposure to Crystalline Silica and Autoimmune Disease”, Environmental Health Perspectives, Volume 107, Supplement 5, pp. 793-802 (1999); “Occupational Scleroderma”, Current opinion in Rheumatology, Volume 11, pp. 490-494, (1999).


E. Kidney Disease: Several studies have reported excess cases of kidney diseases, including end stage renal disease, among silica-exposed workers. For additional information on the subject, the following may be consulted: “Kidney Disease and Silicosis”, Nephron, Volume 85, pp. 14-19 (2000).

F. Non-Malignant Respiratory Diseases: The reader is referred to section 3.5 of the NIOSH special hazard review cited below, for information concerning the association between exposure to crystalline silica and chronic bronchitis, emphysema, and small airways disease. There are studies that disclose an association between dusts found in various mining operations and non-malignant respiratory diseases, particularly among smokers. It is unclear whether the observed associations exists only with underlying silicosis, only among smokers, or result from exposure to mineral dusts generally (independent of the presence or absence of crystalline silica, or the level of crystalline silica in dust).

SECTION 12. ECOLOGICAL INFORMATION

Crystalline silica (quartz) is not known to be an environmental hazard. Fluorides can be toxic to aquatic and terrestrial flora and fauna. Crystalline silica (quartz) is not known to be ecotoxic; i.e., there are no data that suggests that crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants.

SECTION 13. DISPOSAL CONSIDERATIONS

GENERAL: The packaging and material may be landfilled; however, material should be covered to minimize generation of airborne dust.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

WASTE DISPOSAL: Sweep up excess; flush area with large quantities of water. Material could be released as airborne respirable particle. In these instances appropriate personal protection equipment and local ventilation controls must be employed.

Crystalline Silica (Quartz) - ACGIH TLV/TWA - 0.025 mg/m3 - NIOSH REL/TWA 0.025 mg/m3
The OSHA PEL for crystalline silica as trydimite or cristobalite is one half of the OSHA PEL for crystalline silica (quartz).

EYE PROTECTION: Safety glasses with side shields, chemical-type goggles, or face shield. Contact lenses should not be worn.

RESPIRATORY PROTECTION: Use dust respirators in compliance with OSHA Standard 1910.134. For emergency, a self-contained positive pressure, breathing apparatus or full-face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.
SECTION 3. HAZARDS IDENTIFICATION (CONT'D)

THRESHOLD LIMIT VALUE: SiO2 - 0.1 mg/m³; F2 - 2.5mg/m³

EFFECTS OF OVEREXPOSURE: Since this product is a mixture, there is no exposure limit established for it. Hazardous components and their associated permissible exposure limits are listed in the section titled “Composition and Data on Components”. Specific health hazards from the various ingredients include relevant symptoms: irritation to eyes, nose, throat, respiratory system, and skin areas.

ACUTE: Inorganic fluorides are highly irritating and toxic. May cause irritation to respiratory tract, skin, and eyes. Large doses can cause nausea, vomiting, and diarrhea. Circulatory, respiratory complaints, and skin rashes may occur. Respiratory diseases including asthma and emphysema may be aggravated.

CHRONIC: Exposure to fluorides over years may produce an embrittlement and densification of bones, and increase calcification of ligaments. Repeated inhalation of respirable free silica dust may cause delayed lung injury (silicosis).

SECTION 4. FIRST AID MEASURES

EYE CONTACT: Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

INGESTION: Seek medical attention immediately. Give water to dilute. Do not induce vomiting unless directed by licensed medical personnel. Advise physician of possible fluoride exposure.

INHALATION: If difficulty breathing, move to fresh air at once. Apply artificial respiration if breathing has stopped. Seek medical attention.

SKIN CONTACT: Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.

SECTION 5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE: NA

EXPLOSION DATA - Not sensitive to mechanical impact or static discharge.

EXTINGUISHING MEDIA: NA

NOTE: Many dusts and aerosols may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care to avoid causing dusting or misting operation such as grinding or drilling.

FIRE AND EXPLOSION HAZARDS: NA

FIRE FIGHTING PROCEDURES: NA

FLAMMABILITY - Not flammable in presence of open flame, sparks, excessive heat and static discharge.

FLAMMABLE LIMITS LEL: NA

FLAMMABLE LIMITS UEL: NA

FLASHPOINT: NA

SECTION 14. TRANSPORT INFORMATION

Crystalline silica (quartz) is not a hazardous material for purposes of transportation under the U.S. Department of Transportation Table of Hazardous Materials, 49 CFR 172.101.

DOT I.D. NO.: NOT REGULATED

DOT SHIPPING NAME: NA

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL: NONE

OTHER: NA

NMF CLASSIFICATION: High Temperature Bonding Mortar

SECTION 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA Status: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None above detection limits.

Section 311/312 (40 CFR 370) Hazardous Categories: Carcinogenic, Irritant

CERCLA: The RQ for release of sodium silicofluoride is 1,000 pounds.

STATE REGULATIONS:

California: Proposition 65 substances (components) known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the “Safe Drinking Act of 1986”. It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low levels prescribed in the regulations. Therefore, it is the user’s responsibility to determine if the percent of hazardous/carcinogenic ingredients listed elsewhere in the MSDS comply with State of California regulations.

CANADA

DSL: Components included on inventory.

WHMIS HAZARD CLASS (ES): Class D, Division 2, Subdivision A: Materials cause other toxic effects, very toxic material.

WHMIS TRADE SECRET REGISTRY NUMBER(S): Not Applicable

WHMIS SYMBOLS: Stylized T

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS Inventory: Components included on inventory

EEC SYMBOL(S): Toxic, Irritant, Harmful

EINECS NO.: 238-878-4

IARC: Crystalline silica (quartz) is classified in IARC Group 1.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7

RCCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT (SARA Title III):

Crystalline silica (quartz) is not an extremely hazardous substance under section 302 and it is not a toxic chemical subject to the requirements of section 313.
SECTION 15. REGULATORY INFORMATION (CONT'D)

CLEAN AIR ACT: Crystalline silica (quartz) used by Omega Engineering Inc. is not processed with or does not contain any Class I or Class II ozone depleting substances.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR 175.300(b) (3) (xxvi).

NTP: Respirable crystalline silica, primarily quartz ducts occurring in industrial and occupational settings, is classified as known to be a human carcinogen.

OSHA CARCINOGEN: Crystalline silica (quartz) is not listed.

CALIFORNIA PROPOSITION 65: WARNING: This product contains a chemical, crystalline silica, known to the state of California and other states and regional authorities to cause cancer.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT: Quartz is a hazardous substance under the act, but is not a special hazardous substance or an environment hazardous substance.

MASSACHUSETTS TOXIC USE REDUCTION ACT: Silica, Crystalline (respirable size, <10 microns) is toxic for purposes of the Massachusetts Toxic Use Reduction Act.

SECTION 16. OTHER INFORMATION

This MSDS contains information and recommendations based upon our present knowledge and data believed to be reliable. All data shown here are subject to reasonable variation and are supplied as an accommodation to the buyer. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This MSDS applies only to the product in its “as manufactured” state, since the application to which the product is subjected may change its characteristics. The buyer is responsible for determining the safety, toxicity, and suitability of the product under the conditions of their use of the product. Buyers also have the responsibility for insuring that the MSDS is available to their employees, product users, and handlers.

The information contained herein is based upon data considered true and accurate. However, OMEGA makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of use of this information and the material described herein are not within the control of OMEGA, OMEGA assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to OMEGA's Terms and Conditions of Sale, including those limiting warranties and remedies contained herein, it is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.