# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 073298015

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

073298023

SECTION 1 : Identification of the substance/preparation and of the company / undertaking

### (a) GHS product identifier

Resilience

### (e) Emergency phone number CHEMTRAC 1-800-424-9300

- (b) Other means of identification NA
- (c) Recommended use of the chemical and restrictions on use For professional dental applications.

### (d) Supplier's details

Garreco, LLC. 430 Hiram Road Heber Springs, AR 72543 Phone: 1-800-334-1443 **SECTION 2: Hazards identification** 

(a) GHS classification of the substance/mixture

### Substance Name

- 1. Undisclosed due to Confidential Business Information (CBI)
- 2. Crystalline Silica

### (b) Label Elements

### Hazard statements

Causes damage to the lungs through prolonged or repeat exposure through inhalation.

### **Precautionary statements**

Do not breathe dust.

Do not eat, drink, or smoke when using this product.

In case of inadequate ventilation wear respiratory protection.

### Response

IF ON SKIN: Wash off with plenty of water. If skin irritation continues, consult a doctor. IF INHALED: Supply fresh air; consult doctor in case of complaints. IF SWALLOWED: Rinse out mouth. If symptoms persist consult doctor. IF IN EYES: Rinse opened eye for several minutes under running water.

### Storage

Store in a dry, well-ventilated area.

### Disposal

If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations.

Hazard Symbol(s)
Health Hazard

# Signal Word(s)

Danger

### (c) Other hazards which do not result in classification

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; NTP National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen ACGIH American Conference of Governmental Industrial Hygienists: A2 Suspected human carcinogen CAL-65: Listed as Chemical know to the State of California to Cause Cancer

SECTION 3: Composition/information on ingredients		
(a) Chemical(s) Identity:		Mixture:
(b) Common Name:	(c) CAS No.	Concentration (Percentage)
Undisclosed due to Confidential Business Information	NA	65-50%
Crystalline Silica	14464-46-1	35-50%

**SECTION 4: First-aid measures** 

(a) Description of first aid measures:

**IF ON SKIN (or hair)**: Use moisture renewing lotions if dryness occurs.

**IF INHALED:** Remove to fresh air. Blow nose to evacuate dust.

IF SWALLOWED: Drink generous amounts of water to reduce bulk and drying effects. Consult a physician if you feel

unwell.

IF IN EYES: Flush eyes with water or eye rinse solution. Consult a physician if irritation persists.

### (b) Most important symptoms and effects, both acute and delayed:

IF INHALED: Nuisance conditions. Labored breathing may occur after excessive inhalation.

**IN EYES:** If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

### (c) Indication of any immediate medical attention and special treatment needed:

ND

### **SECTION 5: Fire-fighting measures**

### (a) Suitable extinguishing media:

Not applicable, the material is not flammable.

(b) Special hazards arising from the chemical or mixture:

Not applicable, the material is not flammable.

(c) Special protective equipment and precautions for fire-fighters:

Not applicable, the material is not flammable.

**SECTION 6:** Accidental release measures

### (a) Personal precautions, protective equipment and emergency procedures:

No special precautions. Wear appropriate personal protective equipment.

### (b) Environmental precautions:

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

### (c) Methods and material for containment and cleaning up:

Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains; it could clog.

### SECTION 7: Handling and storage

### (a) Precautions for safe handling:

Can release dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur.

### (b) Conditions for safe storage, including any incompatibilities:

Store in a dry area to minimize potential for clumping due to moisture absorption.

### **SECTION 8: Exposure controls/Personal protection**

trol parameters:		
	ACGIH	OSHA
hemical	TLV	PEL TWA
BI	10 mg/m³	15 mg/m³ total, 5 mg/m³ respirable
rystalline Silica	0.1 mg/m <sup>3</sup> respirable	0.1 mg/m <sup>3</sup> respirable
rystalline Silica	0.1 mg/m <sup>3</sup> respirable	0.1 mg/m <sup>3</sup> respirable

### (b) Appropriate Engineering Controls:

Ventilate to keep exposures below TLV requirements. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary.

### (c) Individual protection measures:

**RESPIRATORY:** Appropriate respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present.

**OTHER PROTECTIVE MEASURES:** Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking. No special body protection is required under typical circumstances of use and handling.

**Date Prepared:** 

3.10.20-FM	
Safety Data Sheet	
Form No. A325	Date Prepared: 7/7/2015
SECTION 9: Physical and chemical propertie (a) Appearance:	es White to off-white powder
(b) Odor:	None
(c) Odor threshold:	ND
(d) pH:	10
(e) Melting point / freezing point:	1,300 °C
(f) Initial boiling point and boiling range:	ND
(g) Flash point	Not Combustible
(h) Evaporation rate (BuAc=1):	ND
(i) Flammability:	ND
(j) Upper/lower flammability or explosive lim	
(k) Vapor Pressure:	ND ND
(I) Vapor density: (m) Relative density:	2.3
(n) Solubility:	<1%
(o) Partition coefficient: n-octanol/water:	ND
(p) Auto-ignition temperature:	ND
(q) Decomposition temperature:	1,300 °C
(r) Viscosity:	ND
SECTION 10: Stability and reactivity	Net recetive LINIC O
(a) Reactivity:	Not reactive, HMIS 0 Stable
(b) Chemical stability: (c) Possibility of hazardous reactions:	Low
(d) Conditions to avoid:	Incompatible with Acids.
(f) Hazardous decomposition products:	Decomposes to Calcium Oxide and Sulfur Dioxide at 1,450 °C.
SECTION 11: Toxicological information	
Acute toxicity	NA
Skin corrosion/irritation	May cause dryness and irritation if prolonged exposure.
Serious Eye Damage / Irritation Respiratory or skin sensitization	may cause irritation. Can cause dryness of the nasal passage and lung congestion.
Germ cell mutagenicity	NA
	Crystalline silica, when inhaled as respirable dust, has been classified as
Carcinogenicity	carcinogenic to humans over prolonged and sustained exposure.
Reproductive toxicity	NA
STOT-single exposure	NA
STOT-repeated exposure	Inhalation of respirable silica may contribute to respiratory silicosis.
Aspiration Hazard	NA
	Inhalation, skin and/or eye contact.
(a) Exposure route:	initialation, skin and/or eye contact.
(b) Symptoms related to the physical, chem	ical and toxicological characteristics:
	Difficulty breathing, rashes or irritations.
(c) Dolayod and immodiate offects and also	chronic effects from short and long tem exposure:
(c) Delayed and inimediate effects and also	Difficulty breathing, rashes or irritations.
(d) Numerical measures of toxicity:	
	See control parameters above.
SECTION 12: Ecological information	
(a) Ecotoxicity:	
	ND
(b) Persistence and degradability:	
	ND
(c) Bioaccumulative potential	
(d) Mobility in saily	ND
(d) Mobility in soil:	ND
(e) Other adverse effects:	ND
(b) Other auverse effects.	Possible natural insecticide.

# Product:

### Recommendation

Dispose of material in accordance with all applicable federal, state and local regulations, typically solid waste disposal common to landfill type operations.

SECTION 14: Transport inform	ation		
(a) UN Number			
	This product is not regulated as a hazardous	-	. ,
(b) UN Dropor objecting name	Transportation Regulations nor Canadiar	i transportation of Dange	rous Goods.
(b) UN Proper shipping name		NA	
(c) Transport hazard class(es)			
		NA	
(d) Packing Group		NA	
(e) Environmental hazards			
		NA	
(f) Transport in bulk		N 1 A	
(g) Other Information		NA	
(g) other mornation		NA	
SECTION 45: Dogulatory inform	notion		
SECTION 15: Regulatory inform SARA Reporting Requirements		NA	
		NA	
SARA Threshold Planning Qua	nuty:		
TSCA Inventory Status:		ND	
Other Federal Requirements:		NA	
Other Canadian Regulations:	Crystalline silica is classified as a D2A substance.		
State Regulatory Information:		NA	
SECTION 16: Other information	1		
PREPARED BY:		Kathryn Harris	
GAR QMS SDS REFERENCE:		A036	
HAZARDOUS MATERIAL IDEN			
	Health		
		nability 0 ivity 0	
	React Other	5	
	Ouler	INA	
NATIONAL FIRE PROTECTION	ASSOCIATION (NFPA) RATING:	-	
	Health		
		nability 0	
	React Other	ivity 0 NA	
	Other	INA	
<b>REVISION NUMBER:</b>		150707	
CHANGES FROM PREVIOUS V	ERSION: Formatting chang	e. Added response to labe	l elements.

3.10.20-FM Safety Data Sheet Form No. A325 **ABBREVIATIONS** NA Not Applicable ND Not Determined **NE Not Established** ppm parts per million G Gallon mg Milligram L Liter gm Gram mol Mole kg Kilogram µ Micro mm Millimeter p Pico Pa Pascals c cento LC Lethal Concentration ACGIH American Conference of Governmental Industrial Hygienist **DSL Canadian Domestic Substances List** NDSL Canadian Non-domestic Substance List IARC International Agency for Research for Cancer **OSHA** Occupational Safety and Health Administration

Date Prepared:

LD Lethal Dose **TC Toxic Concentration TD** Toxic Dose BOD Biological Oxygen Demand COD Chemical Oxygen Demand Lo Lowest ThOD Theoretical Oxygen Demand TLm Threshold Limit IC Inhibitory Concentration DOC Dissolved Organic Carbon H Hours M Months D Davs Y Years W Weeks **CPR Controlled Product's Regulation** NOEL No Observed Effect Level NOAEL No Observed Adverse Effect Level PEL Permissible Exposure Limit **TLV Threshold Limit Value** 

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OFCHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF. SECTION 1 : Identification of the substance/preparation and of the company / undertaking

### (a) GHS product identifier

Resilience

### (e) Emergency phone number CHEMTRAC 1-800-424-9300

### (b) Other means of identification

NA

(c) Recommended use of the chemical and restrictions on use For professional dental applications.

### (d) Supplier's details

Garreco, LLC. 430 Hiram Road Heber Springs, AR 72543 Phone: 1-800-334-1443

SECTION 2: Hazards identification

### (a) GHS classification of the substance/mixture

### Substance Name

- 1. Undisclosed due to Confidential Business Information (CBI)
- 2. Crystalline Silica

### (b) Label Elements

### Hazard statements

#### Harmful if inhaled.

### **Precautionary statements**

Do not breathe dust.

Do not eat, drink, or smoke when using this product.

In case of inadequate ventilation wear respiratory protection.

### Response

IF ON SKIN: Wash off with plenty of water. If skin irritation continues, consult a doctor. IF INHALED: Supply fresh air; consult doctor in case of complaints. IF SWALLOWED: Rinse out mouth. If symptoms persist consult doctor.

IF IN EYES: Rinse opened eye for several minutes under running water.

### Storage

Store in a dry, well-ventilated area.

### Disposal

If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations.

Hazard Symbol(s)	Signal Word(s)
Health Hazard	Danger

### (c) Other hazards which do not result in classification

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; NTP National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen ACGIH American Conference of Governmental Industrial Hygienists: A2 Suspected human carcinogen CAL-65: Listed as Chemical know to the State of California to Cause Cancer

Mixtura

**SECTION 3: Composition/information on ingredients** 

### (a) Chemical(s) Identity:

		inixta oi
(b) Common Name:	(c) CAS No.	Concentration (Percentage)
Undisclosed due to Confidential Business Information	NA	65-50%
Crystalline Silica	14464-46-1	35-50%

**SECTION 4: First-aid measures** 

(a) Description of first aid measures:

IF ON SKIN (or hair): Use moisture renewing lotions if dryness occurs.

**IF INHALED:** Remove to fresh air. Blow nose to evacuate dust.

IF SWALLOWED: Drink generous amounts of water to reduce bulk and drying effects. Consult a physician if you feel

unwell.

**IF IN EYES:** Flush eyes with water or eye rinse solution. Consult a physician if irritation persists.

### (b) Most important symptoms and effects, both acute and delayed:

**IF INHALED:** Nuisance conditions. Labored breathing may occur after excessive inhalation. **IN EYES:** If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

### (c) Indication of any immediate medical attention and special treatment needed:

ND

# SECTION 5: Fire-fighting measures (a) Suitable extinguishing media:

Not applicable, the material is not flammable.

(b) Special hazards arising from the chemical or mixture:

Not applicable, the material is not flammable.

(c) Special protective equipment and precautions for fire-fighters:

Not applicable, the material is not flammable.

**SECTION 6:** Accidental release measures

### (a) Personal precautions, protective equipment and emergency procedures:

No special precautions. Wear appropriate personal protective equipment.

### (b) Environmental precautions:

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

### (c) Methods and material for containment and cleaning up:

Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains; it could clog.

### **SECTION 7: Handling and storage**

### (a) Precautions for safe handling:

Can release dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur.

### (b) Conditions for safe storage, including any incompatibilities:

Store in a dry area to minimize potential for clumping due to moisture absorption.

a) Control parameters:		
	ACGIH	OSHA
Chemical	TLV	PEL TWA
CBI	10 mg/m³	15 mg/m <sup>3</sup> total, 5 mg/m <sup>3</sup> respirable
Crystalline Silica	0.05 mg/m <sup>3</sup> respirable	0.05 mg/m <sup>3</sup> respirable

### (b) Appropriate Engineering Controls:

Ventilate to keep exposures below TLV requirements. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary.

### (c) Individual protection measures:

**RESPIRATORY:** Appropriate respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present.

**OTHER PROTECTIVE MEASURES:** Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking. No special body protection is required under typical circumstances of use and handling.

3.10.20-FM				
Safety Data Sheet				
Form No. A433 SECTION 9: Physical and chemical propert	Date Prepared: 3/30/2016			
<ul> <li>(a) Appearance:</li> <li>(b) Odor:</li> <li>(c) Odor threshold:</li> </ul>	White to off-white powder None ND			
(d) pH:	10			
(e) Melting point / freezing point:	1,300 °C			
(f) Initial boiling point and boiling range: (g) Flash point	ND Not Combustible			
(h) Evaporation rate (BuAc=1):	NOT COMBUSIBLE			
(i) Flammability:	ND			
(j) Upper/lower flammability or explosive lin (k) Vapor Pressure:	mits: ND ND			
(I) Vapor density:	ND			
(m) Relative density:	2.3			
(n) Solubility: (o) Partition coefficient: n-octanol/water:	<1% ND			
(p) Auto-ignition temperature:	ND			
(q) Decomposition temperature:	1,300 °C ND			
(r) Viscosity:	IND			
SECTION 10: Stability and reactivity				
(a) Reactivity: (b) Chemical stability:	Not reactive, HMIS 0 Stable			
(c) Possibility of hazardous reactions:	Low			
(d) Conditions to avoid:	Incompatible with Acids. Decomposes to Calcium Oxide and Sulfur Dioxide at 1,450 °C.			
(f) Hazardous decomposition products:				
SECTION 11: Toxicological information Acute toxicity	NA			
Skin corrosion/irritation	May cause dryness and irritation if prolonged exposure.			
Serious Eye Damage / Irritation	may cause irritation.			
Respiratory or skin sensitization Germ cell mutagenicity	Can cause dryness of the nasal passage and lung congestion. NA			
Carcinogenicity	Crystalline silica, when inhaled as respirable dust, has been classified as			
• •	carcinogenic to humans over prolonged and sustained exposure.			
Reproductive toxicity STOT-single exposure	NA NA			
STOT-repeated exposure	Inhalation of respirable silica may contribute to respiratory silicosis.			
Aspiration Hazard	NA			
(a) Exposure route:	Inhalation, skin and/or eye contact.			
(b) Symptoms related to the physical, chemical and toxicological characteristics: Difficulty breathing, rashes or irritations.				
(c) Delayed and immediate effects and also	o chronic effects from short and long tem exposure: Difficulty breathing, rashes or irritations.			
(d) Numerical measures of toxicity:	See control parameters above.			
SECTION 12: Ecological information				
(a) Ecotoxicity:	ND			
(b) Persistence and degradability:				
(c) Bioaccumulative potential	ND			
	ND			
(d) Mobility in soil:	ND			
(e) Other adverse effects:				
	Possible natural insecticide			

Possible natural insecticide.

SECTION 13: Disposal considerations

### Product:

### Recommendation

Dispose of material in accordance with all applicable federal, state and local regulations, typically solid waste disposal common to landfill type operations.

SECTION 14: Transport information			
(a) UN Number			
	roduct is not regulated as a hazardous material by	· · · ·	
ہ (b) UN Proper shipping name	ransportation Regulations nor Canadian Transport	lation of Dangerous Goods.	
	NA		
(c) Transport hazard class(es)			
(d) Packing Group	NA		
	NA		
(e) Environmental hazards			
(f) Transport in bulk	NA		
	NA		
(g) Other Information	NA		
	NA		
SECTION 15: Regulatory information	NA		
SARA Reporting Requirements:			
SARA Threshold Planning Quantity:	NA		
TSCA Inventory Status:	ND		
Other Federal Requirements:	NA		
Other Canadian Regulations:	Crystalline silica is classified as a D2A substance.		
State Regulatory Information:	NA		
SECTION 16: Other information			
PREPARED BY: GAR QMS SDS REFERENCE:	Kathryn Ha A036	arris	
HAZARDOUS MATERIAL IDENTIFICA	HON (HMIS) RATING: Health	0	
	Flammability	0	
	Reactivity	0	
	Other	NA	
NATIONAL FIRE PROTECTION ASSO	CIATION (NFPA) RATING:		
	Health	0	
	Flammability	0	
	Reactivity	0	
	Other	NA	
<b>REVISION NUMBER:</b>	160330		
CHANGES FROM PREVIOUS VERSIO	N: Original version		

3.10.20-FM Safety Data Sheet Form No. A433 **ABBREVIATIONS** NA Not Applicable ND Not Determined **NE Not Established** ppm parts per million G Gallon mg Milligram L Liter gm Gram mol Mole kg Kilogram µ Micro mm Millimeter p Pico Pa Pascals c cento LC Lethal Concentration ACGIH American Conference of Governmental Industrial Hygienist **DSL Canadian Domestic Substances List** NDSL Canadian Non-domestic Substance List IARC International Agency for Research for Cancer OSHA Occupational Safety and Health Administration

Date Prepared:

LD Lethal Dose TC Toxic Concentration TD Toxic Dose BOD Biological Oxygen Demand COD Chemical Oxygen Demand Lo Lowest ThOD Theoretical Oxygen Demand TLm Threshold Limit IC Inhibitory Concentration DOC Dissolved Organic Carbon H Hours M Months D Davs Y Years W Weeks **CPR Controlled Product's Regulation** NOEL No Observed Effect Level NOAEL No Observed Adverse Effect Level PEL Permissible Exposure Limit TLV Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OFCHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.