SAFETY DATA SHEETS

This SDS packet was issued with item:

073298023

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).

073298015

Form No. A325 **Date Prepared: 7/7/2015**

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

(a) GHS product identifier

(e) Emergency phone number

Missture

CHEMTRAC 1-800-424-9300

Resilience

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

Form No. A325 **Date Prepared: 7/7/2015**

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

(a) Control parameters:

ACGIH OSHA
Chemical TLV PEL TWA

CBI 10 mg/m³ 15 mg/m³ total, 5 mg/m³ respirable

Crystalline Silica 0.1 mg/m³ respirable 0.1 mg/m³ 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.

Safety Data Sheet

7/7/2015 Form No. A325 **Date Prepared:**

SECTION 9: Physical and chemical properties			
(a) Appearance:	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		

Not Combustible (g) Flash point (h) Evaporation rate (BuAc=1): ND (i) Flammability: ND ND (j) Upper/lower flammability or explosive limits: (k) Vapor Pressure: ND (I) Vapor density: ND (m) Relative density: 2.3 <1% (n) Solubility: (o) Partition coefficient: n-octanol/water: ND (p) Auto-ignition temperature: ND 1,300 °C (q) Decomposition temperature: (r) Viscosity: ND

SECTION 10: Stability and reactivity

(a) Reactivity: Not reactive, HMIS 0 (b) Chemical stability: Stable (c) Possibility of hazardous reactions: Low

Incompatible with Acids. (d) Conditions to avoid:

(f) Hazardous decomposition products: Decomposes to Calcium Oxide and Sulfur Dioxide at 1,450 °C.

SECTION 11: Toxicological information

NA **Acute toxicity**

May cause dryness and irritation if prolonged exposure. Skin corrosion/irritation

may cause irritation. Serious Eye Damage / Irritation

Can cause dryness of the nasal passage and lung congestion. Respiratory or skin sensitization

Germ cell mutagenicity

Crystalline silica, when inhaled as respirable dust, has been classified as Carcinogenicity

carcinogenic to humans over prolonged and sustained exposure.

Reproductive toxicity NA NA STOT-single exposure

STOT-repeated exposure Inhalation of respirable silica may contribute to respiratory silicosis.

Aspiration Hazard NA

Inhalation, skin and/or eye contact. (a) Exposure route:

(b) Symptoms related to the physical, chemical and toxicological characteristics:

Difficulty breathing, rashes or irritations.

(c) Delayed and immediate effects and also 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: ND

(c) Bioaccumulative potential

ND (d) Mobility in soil:

ND

(e) Other adverse effects:

Possible natural insecticide.

Safety Data Sheet

Form No. A325 **Date Prepared: 7/7/2015**

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.

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	1 7 L		
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(a) UN Number

This product is not regulated as a hazardous material by neither the United States (DOT)

Transportation Regulations nor Canadian Transportation of Dangerous Goods.

(b) UN Proper shipping name

(c) Transport hazard class(es)

(d) Packing Group

(e) Environmental hazards

(f) Transport in bulk

(g) Other Information

SECTION 15: Regulatory information

SARA Reporting Requirements:

SARA Threshold Planning Quantity:

TSCA Inventory Status:

Other Federal Requirements:

Other Canadian Regulations:

State Regulatory Information:

SECTION 16: Other information

PREPARED BY:

GAR QMS SDS REFERENCE:

HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

REVISION NUMBER:

CHANGES FROM PREVIOUS VERSION:

,

NA

NA

NA

INA

NA

NA

NA

NA

NA

NA ND

NA
Crystalline silica is classified as a D2A substance.

NA

Kathryn Harris

A036

Health 0 Flammability 0

Reactivity 0
Other NA

Health 0

Flammability 0
Reactivity 0
Other NA

Other I

Formatting change. Added response to label elements.

Safety Data Sheet

Form No. A325 **Date Prepared: 7/7/2015**

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

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.

3/16/2018 Form No. A590 **Date Prepared:**

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

(a) GHS product identifier

(e) Emergency phone number Resilience

CHEMTRAC 1-800-424-9300

CCN9105

(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) 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 50-65% Crystalline Silica 14464-46-1 35-50%

Form No. A590 Date Prepared: 3/16/2018

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:

If dust if present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles. Do not breathe dust.

(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:

Vacuum clean spillage or wet sweep. Avoid creating airborne dust. Place in a container for use or disposal.

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

(a) Control parameters:

ACGIH 2017 TLV OSHA
Chemical TLV PEL TWA

CBI 10 mg/m³ 15 mg/m³ total, 5 mg/m³ respirable

Crystalline Silica $0.025 \text{ mg/m}^3 \text{ respirable}$ $1/2 \times (10 \text{mg/m}^3/ \text{SiO}_2 + 2) \text{ (effective until 6/23/17)}$

50 μg/m³ respirable (effective 6/23/17)

(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.

Safety Data Sheet

orm No.	A590	Date Prepared:	3/16/2018
SECTION	9: Physical and chemical propertie	es .	
(a) Appea	rance:	White to off-white powder	
(b) Odor:		None	
(c) Odor t	hreshold:	ND	
(d) pH:		10	
(e) Meltin	g point / freezing point:	1,300 °C	
(f) Initial I	poiling point and boiling range:	ND	
(g) Flash	point	Not Combustible	
(h) Evapo	ration rate (BuAc=1):	ND	
(i) Flamm	ability:	ND	
	lower flammability or explosive lim		
(k) Vapor	Pressure:	ND	
(I) Vapor	density:	ND	
(m) Relati	ive density:	2.3	
(n) Solub	ility:	<1%	
	on coefficient: n-octanol/water:	ND	
	gnition temperature:	ND	
(q) Decon	nposition temperature:	1,300 °C	
(r) Viscos	ity:	ND	
SECTION	10: Stability and reactivity		
(a) Reacti	vity:	Not reactive, HMIS 0	
(b) Chem	ical stability:	Stable	
	oility of hazardous reactions:	Low	
	tions to avoid:	Incompatible with Acids.	
(f) Hazard	lous decomposition products:	Decomposes to Calcium Oxide and Sulfur Dioxide	e at 1,450 °C.
SECTION	11: Toxicological information		
Acute tox		NA	
	osion/irritation	May cause dryness and irritation if prolonged exp	osure.
Serious E	ye Damage / Irritation	may cause irritation.	
	ry or skin sensitization	Can cause dryness of the nasal passage and lung co	ongestion.
Germ cell	mutagenicity	NA	
Carainas	aniait.	Crystalline silica, when inhaled as respirable dust, has be	en classified as
Carcinog	enicity	carcinogenic to humans over prolonged and sustained	d exposure.
Reproduc	tive toxicity	NA	
STOT-sin	gle exposure	NA	
	eated exposure	Inhalation of respirable silica may contribute to respirat	tory silicosis.
Aspiration	n 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 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:	ND
(c) Bioaccumulative potential	ND
(d) Mobility in soil:	ND
(e) Other adverse effects:	

Possible natural insecticide.

Safety Data Sheet

3/16/2018 Form No. A590 **Date Prepared:**

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

This product is not regulated as a hazardous material by neither the United States (DOT) Transportation Regulations nor Canadian Transportation of Dangerous Goods.

NA

NA

NA

NA

NA

NA

NA

NA ND

NA

(b) UN Proper shipping name

(c) Transport hazard class(es)

(d) Packing Group

(e) Environmental hazards

(f) Transport in bulk

(g) Other Information

SECTION 15: Regulatory information

SARA Reporting Requirements:

SARA Threshold Planning Quantity:

TSCA Inventory Status:

Other Federal Requirements:

Crystalline silica is classified as a D2A substance. **Other Canadian Regulations:**

State Regulatory Information:

This product contains crystalline silica, a chemical known to the State of California to cause cancer.

Safety Data Sheet

Form No. A590 Date Prepared: 3/16/2018

SECTION 16: Other information

PREPARED BY: Kristofer Mainar

GAR QMS SDS REFERENCE: A591

HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:

Health 0
Flammability 0
Reactivity 0
Other NA

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

Health 0
Flammability 0
Reactivity 0
Other NA

REVISION NUMBER: 180316

CHANGES FROM PREVIOUS VERSION: Replaces A433. Revised PEL according to 29 CFR 1926.1153(d)(1).

Added California statement in Section 15.

ABBREVIATIONS

NA Not Applicable LD Lethal Dose

ND Not Determined TC Toxic Concentration

NE Not Established TD Toxic Dose

ppm parts per million BOD Biological Oxygen Demand G Gallon COD Chemical Oxygen Demand

mg Milligram Lo Lowest

L Liter ThOD Theoretical Oxygen Demand

gm Gram
TLm Threshold Limit
mol Mole
IC Inhibitory Concentration
kg Kilogram
DOC Dissolved Organic Carbon

kg Kilogram DOC Disso μ Micro H Hours mm Millimeter M Months p Pico D Days Pa Pascals Y Years

OSHA Occupational Safety and Health Administration

c cento W Weeks
LC Lethal Concentration CPR Controlled Product's Regulation

ACGIH American Conference of Governmental Industrial Hygienist NOEL No Observed Effect Level

DSL Canadian Domestic Substances List

NOAEL No Observed Adverse Effect Level

NDSL Canadian Non-domestic Substance List

PEL Permissible Exposure Limit

TLV Threshold Limit Value

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