

SAFETY DATA SHEETS

This SDS packet was issued with item:

073296761

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071295534 073296829 073297421

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).

073296753 073296779 073296787 073296845 073297405 073297413 073297447 073297454 073297462 073298502

Dental Stones and Plasters**Material Safety Data Sheet****Section I**

Manufacturer: **Garreco, Inc.**
P.O. Box 1258
Heber Springs, AR 72543

Emergency Telephone Number: CHEMTREC 800-424-9300

Telephone Number for Information: 501-362-6261

Date Prepared: 5/16/2011

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV % (optional)

None

Section III - Physical/Chemical Characteristics

Boiling Point: NAIF Specific Gravity (H₂O=1): 2.7 - 3.0
 Vapor Pressure (mm Hg.): NAIF Melting Point: 1450°C
 Vapor Density (AIR=1): NAIF Evaporation Rate (Butyl Acetate =1): NAIF
 Solubility in Water: 0.20% Appearance and Odor: Powder, Low Odor

Section IV - Fire and Explosion Hazard Data

Flash Point: NAIF Flammable Limits: (LEL) N/A (UEL) N/A
 Extinguishing Media: NAIF Special Fire Fighting Procedures: None
 Unusual Fire and Explosion Hazards: None

Section V - Reactivity Data

Stability: Stable Conditions to Avoid: None
 Incompatibility: Acids Hazardous Decomposition or By-products: Above 1450°C - CaO+SO₂
 Hazardous Polymerization: Will Not Occur Conditions to Avoid: None

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Yes Skin? No Ingestion? Yes
 Health Hazards: Acute: NAIF Chronic: NAIF
 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: NAIF

Medical Conditions Generally Aggravated by Exposure: Pre-existing upper respiratory and lung disease.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air *. Ingestion: Dilute by drinking water or milk.*. Skin: *. Eye: Wash with large amounts of water *. (* Obtain first aid or medical attention if needed.)

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled:

Normal cleanup procedures, avoid dusting conditions.

Waste Disposal Method:

Standard landfill methods consistent with federal, state, and local laws.

Precautions to Be Taken in Handling and Storing:

Avoid dusting conditions.

Other Precautions: NAIF

Section VIII - Control Measures

Respiratory Protection: OSHA approved dust mask.

Ventilation Local Exhaust: Recommended Special: NAIF

Mechanical (General): Vent to dust collector. Other: NAIF

Protective Gloves: As Desired

Eye Protection: Goggles Recommended

Other Protective Clothing or Equipment: NAIF

Work/Hygienic Practices: NAIF

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Labstone Buff**

Other means of identification:

Synonyms: None

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: None.

Chemical manufacturer address and telephone number:

Manufacturer Name: Kulzer, LLC (Mitsui Chemicals Group)

Address: 4315 South Lafayette Blvd.
 South Bend, Indiana 46614-2517
 USA

General Phone Number: 800-431-1785

Emergency phone number:

Emergency Phone Number: Chemtrec @ 1-800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: DANGER.

GHS Class: Specific Target Organ Toxicity -STOT Repeated exposure RE. category 1 (Inhalation, Lung).
 Carcinogenicity. Category 1A.

Hazard Statements: H372 - Causes damage to organs through prolonged or repeated exposure.
 H350 - May cause cancer.

Precautionary Statements: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.
 P405 - Store locked up.
 P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Eye contact with the dust may cause irritation.

Skin: May cause skin irritation.

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if ingested.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions: None generally recognized.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Ammonium Chloride	12125-02-9	1 - 5 by weight	
Crystalline Silica (Quartz)	14808-60-7	1 - 5 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	If dust gets into eyes. Flush eye with water for 15 minutes. Remove contact lenses, if applicable, and continue flushing. If eye irritation persists, consult a specialist.
Skin Contact:	If dust gets onto the skin. Wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If dust is inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.
Ingestion:	Accidental ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur.

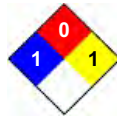
SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use any extinguishing media appropriate for the surrounding fires. Dike to control run-on/run-off if water is used to fight fires
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NFPA Ratings:

NFPA Health:	1
NFPA Flammability:	0
NFPA Reactivity:	1



SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Persons responding to an accidental release should wear coveralls, gloves, safety glasses or other protective clothing as required. Close-fitting goggles may be necessary in some circumstances to prevent eye contact with dust. Workers should wash and change clothing following cleanup of a spill to prevent personal contamination.
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Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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Methods and materials for containment and cleaning up:

Methods for containment:	Collect spillage and prevent from spreading by covering, diking, berming or other means. Minimize dust generation.
Methods for cleanup:	Control source of spillage if possible to do so safely. Restrict access to the area until completion of clean up. Contain spilled material immediately and control run-on and run-off. Clean up spilled material observing precautions listed in Section 8, Personal Protection and using methods that will minimize dust generation. Uncontaminated materials can be recovered for return to process. Contaminated materials should be placed in suitable labeled containers for later recovery or disposal. Waste material must be treated and disposed of in accordance with all local, regional, and national requirements.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	No special handling procedures are required for this material. Avoid dust formation.
Hygiene Practices:	Wash hands with water as a precaution. Do not breathe dust.

Conditions for safe storage, including any incompatibilities:

Storage:	No special storage conditions required.
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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Ammonium Chloride :

Guideline ACGIH:	TLV-STEL: 20 mg/m ³ TLV-TWA: 10 mg/m ³
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Crystalline Silica (Quartz) :

Guideline ACGIH:	TLV-TWA: 0.025 mg/m ³ (R)
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Calcium Sulfate Hemihydrate :

Guideline ACGIH:	TLV-TWA: 10 mg/m ³ Inhalable fraction (I)
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Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Close-fitting goggles may be necessary in some circumstances to prevent eye contact with dust.

Skin Protection Description: Coveralls or other work clothing, safety glasses, and gloves are recommended to prevent prolonged or repeated direct skin and eye contact.

Hand Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection: No personal respiratory protective equipment is normally required. When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Fine powder.
Color: Buff
Odor: Not determined.
Boiling Point: Not determined.
Melting Point: Not determined.
Specific Gravity: 2.3
Solubility: SLIGHT, 0.2% AT 40°C IN WATER
Vapor Pressure: Not determined.
Percent Volatile: Not determined.
Evaporation Rate: Not determined.
pH: Not determined.
Flash Point: Not determined.
Lower Flammable/Explosive Limit: Not determined.
Upper Flammable/Explosive Limit: Not determined.
Auto Ignition Temperature: Not determined.
VOC Content: Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: None under normal use.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur.

Conditions To Avoid:

Conditions to Avoid: Dust dispersion in air.

Incompatible Materials:

Incompatible Materials: None during normal use.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Ammonium Chloride :

Eye: Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild]
Administration into the eye - Rabbit Standard Draize test: 100 mg [Severe] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 1650 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Stability: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not regulated as hazardous material for transportation.

DOT UN Number: Not regulated as hazardous material for transportation.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Canada WHMIS: Controlled - Class: D2B Toxic
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

Ammonium Chloride:

TSCA Inventory Status: Listed

Canada DSL: Listed

Crystalline Silica (Quartz):

TSCA Inventory Status: Listed

Canada DSL: Listed

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1
HMIS Fire Hazard: 0
HMIS Reactivity: 1
HMIS Personal Protection: X

Health Hazard	1
Fire Hazard	0
Reactivity	1
Personal Protection	X

SDS Revision Date: May 25, 2015

SDS Format:

SDS Author: Regulatory department

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

(a) GHS product identifier

Tecstone, Fastone, Tecstone FL, Labstone, Orthostone, Mounting Stone, Flasking Stone, Flask-It!, Apex, Natural Rock, Veri-Die, Veri-Die 20, Excalibur, X-Rock, Express Set, Cadscan, Pristine, Plaster, and OrthoPlaster
(Except Merlin's Magic, Orthoplaster White, Tecstone FL White, CadScan Brilliant White, Veri Die White Plus, Apex Pearl White, CadScan Green, Apex Green, Apex Pastel, Veri Die Cream, Apex Ivory, Apex Light Tan, Tecstone Bright Yellow Sakura, Apex Yellow, CadScan Golden, CadScan Tan, CadScan Buff, and Excalibur Buff)

(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

(b) Label Elements

Hazard statements

None

Precautionary statements

None

Hazard Symbol(s)

NONE

Signal Word(s)

NONE

(c) Other hazards which do not result in classification

IF ON SKIN: This material hardens and becomes hot when mixed with water. It SHOULD NOT be used to make a cast enclosing any part of the body, which may cause severe burns that may require surgical removal of affected tissue or amputation of limb. Contact with skin may cause irritation or abrasions.

IF INHALED: Dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. May cause coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

IF SWALLOWED: May cause gastric disturbances if swallowed. Ingestion of a sufficient quantity may mechanically obstruct the gut, especially the pyloric region.

IF IN EYES: Direct contact can cause mechanical irritation of eyes.

SECTION 3: Composition/information on ingredients

(a) Chemical(s) Identity:

(b) Common Name:

Undisclosed due to Confidential Business Information

(c) CAS No.

NA

Mixture:

Concentration (Percentage)

>99%

SECTION 4: First-aid measures

(a) Description of first aid measures:

IF ON SKIN (or hair): Rinse with water until free of material to avoid abrasions, then wash skin thoroughly with mild soap and water.

IF INHALED: If respiratory symptoms persist, consult physician.

IF SWALLOWED: If gastric disturbance occurs, consult physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

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

IF INHALED: Nuisance conditions such as coughing, sneezing, and nasal irritation. 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:

Water or use extinguishing media appropriate for surrounding fire.

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

None known

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

Wear appropriate personal protective equipment.

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, may plug drains.

SECTION 7: Handling and storage

(a) Precautions for safe handling:

None required where adequate ventilation conditions exist. Avoid creating dust. Wear a NIOSH approved dust respirator in poorly ventilated areas/TLV requirements are exceeded.

(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:

Chemical	ACGIH TLV	OSHA PEL TWA
CBI	10 mg/m ³	15 mg/m ³ total, 5 mg/m ³ respirable

(b) Appropriate Engineering Controls:

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

(c) Individual protection measures:

RESPIRATORY: None required where adequate ventilation conditions exist. Avoid creating dust. Wear a NIOSH/OSHA approved dust respirator in poorly ventilated areas or if TLV requirements are exceeded.

OTHER PROTECTIVE EQUIPMENT: No special body protection is required under typical circumstances. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

SECTION 9: Physical and chemical properties

(a) Appearance:	White to colored powder
(b) Odor:	None
(c) Odor threshold:	ND
(d) pH:	7.5 - 8.5
(e) Melting point / freezing point:	1,450 Degrees Celsius
(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 limits:	ND
(k) Vapor Pressure:	ND
(l) Vapor density:	ND
(m) Relative density:	ND
(n) Solubility:	ND
(o) Partition coefficient: n-octanol/water:	ND
(p) Auto-ignition temperature:	ND
(q) Decomposition temperature:	1,450 Degrees Celsius
(r) Viscosity:	ND

SECTION 10: Stability and reactivity

(a) Reactivity:	Low, HMIS 0
(b) Chemical stability:	Stable
(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 Degrees Celsius

SECTION 11: Toxicological information

Acute toxicity	NE
Skin corrosion/irritation	NE
Serious Eye Damage / Irritation	NE
Respiratory or skin sensitization	NE
Germ cell mutagenicity	NE
Carcinogenicity	NE
Reproductive toxicity	NE
STOT-single exposure	NE
STOT-repeated exposure	NE
Aspiration Hazard	NE

(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:	ND

SECTION 13: Disposal considerations**Product:****Recommendation**

Sweep and dispose of material in accordance with all applicable federal, state and local regulations.

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.

(b) UN Proper shipping name

NA

(c) Transport hazard class(es)

NA

(d) Packing Group

NA

(e) Environmental hazards

NA

(f) Transport in bulk

NA

(g) Other Information

NA

SECTION 15: Regulatory information**SARA Reporting Requirements:**

NA

SARA Threshold Planning Quantity:

NA

TSCA Inventory Status:

ND

Other Federal Requirements:

NA

Other Canadian Regulations:

NA

State Regulatory Information:

NA

SECTION 16: Other information

PREPARED BY: Kathryn Harris
GAR QMS SDS REFERENCE: A002

HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:

Health	0
Flammability	0
Reactivity	0
Other	NA

REVISION NUMBER: 160204

CHANGES FROM PREVIOUS VERSION:

ORIGINAL VERSION

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
μ Micro	H Hours
mm Millimeter	M Months
p Pico	D Days
Pa Pascals	Y Years
c cent	W Weeks
LC Lethal Concentration	NOEL No Observed Effect Level
ACGIH American Conference of Governmental Industrial Hygienist	NOAEL No Observed Adverse Effect Level
CPR Controlled Product's Regulation	OSHA Occupational Safety and Health Administration
DSL Canadian Domestic Substances List	PEL Permissible Exposure Limit
NDSL Canadian Non-domestic Substance List	TLV Threshold Limit Value
IARC International Agency for Research for Cancer	

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OF CHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED.

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