

SAFETY DATA SHEETS

This SDS packet was issued with item:

073297157

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).

073298098

Pristine® 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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Denatured Alcohol

Other means of identification

Product Code(s) 3998
UN-No 1170

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory chemicals.

Details of the supplier of the safety data sheet

Manufacturer Address

LaMotte Company, Inc.
 802 Washington Avenue
 P.O. Box 329
 Chestertown, MD 21620 USA
 T 410-778-3100
 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Physical hazards Flammable Liquids.	Category 2

EMERGENCY OVERVIEW

DANGER

Hazard statements

Harmful if swallowed. Causes serious eye irritation. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure. .
 Highly flammable liquid and vapor.



Appearance Clear, colorless	Physical state liquid	Odor Alcohol
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Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Methyl alcohol	67-56-1	<5
Ethyl alcohol	64-17-5	>95

4. FIRST AID MEASURES**First Aid Measures****General advice**

Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Show this safety data sheet to the doctor in attendance.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. If skin irritation persists, call a physician.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.

Ingestion

Do not induce vomiting without medical advice. If accidentally swallowed obtain immediate medical attention. Immediate medical attention is required. Rinse mouth.

Self-protection of the first aider

Use personal protective equipment. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Vapors may travel to source of ignition and flash back. Flash back possible over considerable distance.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment A vapor suppressing foam may be used to reduce vapors. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Do not flush to sewer.

Methods for cleaning up Minimize the amount spilled and suppress resultant vapors. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using this product. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Store away from strong acids and oxidizers. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Contact with metals (aluminum, zinc, tin) may release hydrogen gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol 67-56-1	250 ppm STEL TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³
Ethyl alcohol	1000 ppm STEL	TWA: 1000 ppm	IDLH: 3300 ppm

64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
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NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems. Use explosion-proof electrical/ventilating/lighting/equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves/clothing. Wear latex or nitrile gloves. Neoprene gloves.

Respiratory protection Use only with adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Alcohol
Appearance	Clear, colorless		
Property	Values	Remarks • Method	
	pH	No information available	
Melting point / freezing point	No information available		
Boiling point / boiling range	78.5 °C / 173.3 °F	for SDA (3A) Ethyl Alcohol	
Flash point	16 °C / °F	Closed cup for SDA (3A) Ethyl Alcohol	
Evaporation rate			
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	19%		
Lower flammability limit:	3.3%		
Vapor pressure	48 mmHg @ 20°C	for SDA (3A) Ethyl Alcohol	
Vapor density	1.6 @ 20°C (Air=1)	for SDA (3A) Ethyl Alcohol	
Specific gravity	No information available		
Water solubility	completely soluble		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	363 °C / 685 °F	for SDA (3A) Ethyl Alcohol	
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
<u>Other Information</u>			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	No information available		
Density	No information available		
Bulk density	No information available		

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Contact with metals (aluminum, zinc, tin) may release hydrogen gas.
Hazardous decomposition products	Carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl alcohol 67-56-1	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000 ppm (Rat) 4 h
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)	Not Established	= 124.7 mg/L (Rat) 4 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Methyl alcohol 67-56-1	Not Established	Not Established	Not Established	Not Established
Ethyl alcohol 64-17-5	A3	Group 1	Known	X

*NTP (National Toxicology Program)
Known - Known Carcinogen*

Chronic toxicity Prolonged exposure may cause chronic effects. Repeated or prolonged exposure may cause central nervous system damage. May cause adverse liver effects. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.

ATEmix (oral)	1626
ATEmix (dermal)	6250 mg/kg
ATEmix (inhalation-dust/mist)	10.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Methyl alcohol 67-56-1	Not Established	13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	Not Established
Ethyl alcohol 64-17-5	Not Established	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability

Inherently biodegradable, fulfilling criteria.

Bioaccumulation/Accumulation

Ethanol:

When released into the soil, this material is expected to quickly evaporate.

When released into water, this material may evaporate to a moderate extent. This material is not expected to significantly bioaccumulate.

When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by dry and wet deposition. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Mobility

Will likely be mobile in the environment due to its water solubility.

Chemical name	Log Pow
Methyl alcohol 67-56-1	-0.77
Ethyl alcohol 64-17-5	-0.32

13. DISPOSAL CONSIDERATIONS

Disposal Methods Should not be released into the environment. Dispose of contents/containers in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol 67-56-1	Not Established	Included in waste stream: F039	Not Established	Ignitable waste
Ethyl alcohol 64-17-5	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Methyl alcohol 67-56-1	Not Established	Not Established	Not Established	Not Established
Ethyl alcohol 64-17-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Methyl alcohol 67-56-1	-
Ethyl alcohol 64-17-5	-

14. TRANSPORT INFORMATION

DOT

Proper shipping name ETHANOL SOLUTION (5% Methanol Solution)
UN-No 1170
Hazard Class 3
Packing group II

IATA

Proper shipping name ETHANOL SOLUTION (5% Methanol Solution)
UN-No 1170
Hazard Class 3
Packing group II

IMDG/IMO

Proper shipping name	ETHANOL SOLUTION (5% Methanol Solution)
UN-No	1170
Hazard Class	3
Packing group	II

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Methyl alcohol 67-56-1	1.0
Ethyl alcohol 64-17-5	Not Established

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl alcohol 67-56-1	Not Established	Not Established	Not Established	Not Established
Ethyl alcohol 64-17-5	Not Established	Not Established	Not Established	Not Established

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Methyl alcohol 67-56-1	5000 lb	Not Established	RQ 5000 lb final RQ RQ 2270 kg final RQ

Ethyl alcohol 64-17-5	-	Not Established	-
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US State Regulations**California Proposition 65**

WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

(Ethyl alcohol is only considered a Proposition 65 cancer and developmental hazard when it is ingested as an alcoholic beverage)

Chemical name	California Proposition 65
Methyl alcohol 67-56-1	Developmental
Ethyl alcohol 64-17-5	Carcinogen

U.S. State Right-to-Know Regulations

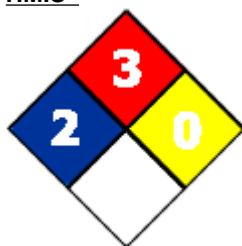
Chemical name	New Jersey	Massachusetts	Pennsylvania
Methyl alcohol 67-56-1	X	X	X
Ethyl alcohol 64-17-5	X	X	X

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances
Methyl alcohol 67-56-1	Special labeling, 16 CFR 1500.14 (including mixtures containing >=4% by weight)

16. OTHER INFORMATION

NFPA	Health hazard 2	Flammability 3	Instability 0	Physical and Chemical Hazards N/A
HMIS	Health hazard 2	Flammability 3	Stability 0	



HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Prepared by Regulatory Affairs Department
 Issuing Date Jul-09-2015
 Revision Date Jul-10-2015
 Reason for revision New US GHS format
Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet

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	

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