DATE: 09/04/03 INDEX: D32453420 ACCT: 463282001 CAT NO: S71922 PO NBR: P0095809 PAGE: 1

MATERIAL SAFETY DATA SHEET \*\*\*\*

Calcium carbonate

Name: Calcium carbonate SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

AC2124670000, AC124670010, AC124670025, AC219160010, AC21916010, AC219160010, AC21 875769

Synonyma:

Precipitated Chalk; Aragonite; Agricultural Limestone; Agstone; Bell Mine Pulverized Limestone; Calcite; Dolomite; Franklin; Boiling Chips.

Chips.

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Emergency Number: 201 For CHEMTREC assistance, ca For International CHEMTREC information, call: Fisher Scientific

1 Research Lane
Pairwin NJ 07410

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471-34-1 CAS# Calcium carbonate Chemical Name >99 ф 207-439-9 EINECS#

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

Hazard Symbols: None Listed. Risk Phrases: None Listed.

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

EMERGENCY OVERVIEW

Appearance: white solid.
Warning! May cause kidney damage. May cause central nervous system effects. Causes eye and skin irritation. Causes digestive and respiratory tract irritation. causes digestive and rarget Organs: Kidneys, central nervous system.

Potential Health Effects

Skin: May cause eye irritation

Ingestion Causes skin irritation.

Ingestion of large amounts may cause gastrointestinal irritation.

Expected to be a low ingestion hazard.

Inhalation:

Chron Low hazard for usual industrial handling. Excessive inhalation may cause minor respiratory irritation.

Chronic ingestion may cause hypercalcemia, alkalosis, and kidney damage. May also produce "milk-alkall syndrome" characterized by neurological symptoms such as irritability, lethargy, stupor, an

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:

Skin: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Inhalation: NOT induce vomiting. If victim is conscious and alert, give fuls of milk or water. Get medical aid.

give oxygen. G Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult give exygen. Get medical aid if cough or other symptoms appear.

symptomatically and

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Non-combustible, substance itself does not burn but may decompose

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DATE: 09/04/03 INDEX: D32453420

ACCT: 463282001 CAT NO: S71922

PO NBR: P0095809 PAGE: 2

upon heating to produce irritating, corrosive and/or toxic fumes Extinguishing Media:
Substance is noncombustible: use agant most approach

Substance is noncombustible, use agent most appropriate to extinguish surrounding fire.
Autoignition Temperature:Not applicable.
Flash Point:
Rexplosion Limits, lower:Not available.
Explosion Limits, upper:Not available.
Explosion Limits, upper:Not available.
Explosion Limits, upper:Not available.
Explosion Limits, upper:Not available.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. in the

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

breathing dust Storage: Handling:
Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid

Store in a cool, dry, well-ventilated area away from substances. Keep away from strong acids. incompatible

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

		Calcium carbonate	Chemical Name
ca)	containing no asbestos and <1% crystalline sili	10 mg/m3 (particulate matter	ACGIH
**).	(respirable dust) (listed under ** no name	10 mg/m3 TWA (total dust); 5 mg/m3 TWA	HSOIN
** no name **).	(respirable fraction) (listed under	15 mg/m3 TWA (total dust); 5 mg/m3 TWA	OSHA - Final PELs

OSHA Vacated PELs: Calcium carbonate: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (listed under \*\* no name \*\*)

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Clothing: Wear appropriate protective clothing to minimize contact with skin. Wear appropriate gloves to prevent skin exposure

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Vapor Pressure:
Vapor Density:
Evaporation Rate:
Viscosity:
Boiling Point: Freezing/Melting Point:
Decomposition Temperature:
Solubility in water:
Specific Gravity/Density:
Molecular Formula: Physical State:

Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
1517 deg F
1517 deg F 8-9 (sol

TI

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate Classification.

RCRA P-Series: None listed. Molecular Weight: US FEDERAL SARA CercLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ. SARA Codes Carcinogenicity:
Calcium carbonate Not listed by ACGIH, IARC, Ecotoxicity:
This chemical is expected to cause no oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms. Acut aquatic effects: 48-hour LC50; Mosquito fish: 56,000 mg/L. Mutagenicity:
No information found. Conditions to Avoid:

Conditions to Avoid:

Incompatible materials, dust generation, acids, excess heat.

Incompatible intermed the Materials:

Will ignite on contact with fluorine; incompatible with acids, alum, ammonium salts and mercury + hydrogen.

Hazardous Decomposition Products:

Calcium oxide.

Calcium oxide.

Hazardous Polymerization: Has not been reported. Canadian US DOT Other Neurotoxicity: Teratogenicity:
No information found.
Reproductive Effects: Chemical Stability: Stable. LD50/LC50: RTECS# CAS# 471-34-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule. Section 313
Section 313
Section 313
Section 313 None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA. This material does not contain any hazardous air pollutants This material does not contain any Class 1 Ozone depletors. No information available No information available. No information found. CAS# 471-34-1: Draize test, rabbit, eye: 750 ug/24H Severe; Draize test, rabbit, skin: 500 mg/24H Moderate; Oral, rat: LD50 = 6450 No information found. CAS# 471-34-1: FF9335000 D32453420 information found actual entry in RTECS for complete information. \*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\* \*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\* \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\* \*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\* \*\*\*\* SECTION 14 -\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\* 100.0782 ACCT: 463282001 CAT NO: S71922 TRANSPORT INFORMATION \*\*\*\* NIOSH, NTP. or OSHA. PO NBR: P0095809 PAGE: 3

> Callium carbonate can be found on the following state right to know lists: Pennsylvania, (listed as \*\* no name \*\*), Minnesota, (listed as \*\* no name \*\*).
>
> \*\* no name \*\*), Massachusetts, (listed as \*\* no name \*\*).
>
> Calliornia No Significant Risk Level:
>
> None of the chemicals in this product are listed.
>
> European/International Regulations
>
> European Labeling in Accordance with EC Directives
>
> Hazard Symbols: Not available.
>
> Risk phrases:
>
> Risk phrases:
>
> Safety Phrases:
>
> WGK (Water Danger/Protection)
>
> Chas# 471-34-1: OES-United Kingdom, TWA 10 mg/m3 TWA (total inhalable dust); 4 mg/m3 TWA (respirable dust) STATE CAS# 471-34-1 is listed on Canada's DSL List.
> This product has a WHMIS classification of DZB.
> CAS# 471-34-1 is not listed on Canada's Ingredient Disclosure List.
> Exposure Limits CAS# 471-34-1 (listed as \*\* undefined \*\*): OEL-AUSTRALIA:TWA 10 mg/m3 Canada United Kingdom Maximum Exposure Limits The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the pessability of such damages. This material does not contain any Class 2 Ozone depletors. Clean Water Act:
>
> None of the chemicals in this product are listed as Hazardo INDEX: 032453420 MSDS Creation Date: 11/19/1998 None of the chemicals in this product are listed as Hazardous Substances under the CWA. Substances under the CWA. Product are listed as Priority None of the Chemicals in this product are listed as Priority None of the Chemicals in this product are listed as Toxic Pollutants under the CWA. None of the chemicals in this product are considered highly hazardous by  ${\tt OSHA}$ . \*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\* ACCT: 463282001 CAT NO: S71922 Revision #4 Date: 2/25/2003 PO NBR: P0095809 PAGE: 4