

# SAFETY DATA SHEET

## 1. Identification

|                                                               |                                                                                                            |                       |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Product identifier</b>                                     | <b>CALCIUM CARBONATE, CHELOMETRIC STANDARD (ACS)</b>                                                       |                       |
| <b>Other means of identification</b>                          |                                                                                                            |                       |
| <b>Product code</b>                                           | <b>AR1034</b>                                                                                              |                       |
| <b>Recommended use</b>                                        | professional, scientific and technical activities: other professional, scientific and technical activities |                       |
| <b>Recommended restrictions</b>                               | None known.                                                                                                |                       |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |                                                                                                            |                       |
| <b>Manufacturer</b>                                           |                                                                                                            |                       |
| <b>Company name</b>                                           | Alpha Resources, Inc.                                                                                      |                       |
| <b>Address</b>                                                | P.O. Box 199<br>Stevensville, MI 49127<br>United States                                                    |                       |
| <b>Telephone</b>                                              | Phone                                                                                                      | 269-465-5559          |
|                                                               | Toll Free                                                                                                  | 800-833-3083          |
| Fax                                                           |                                                                                                            | 740-881-5989          |
| <b>Website</b>                                                | www.alpharesources.com                                                                                     |                       |
| <b>E-mail</b>                                                 | sales@alpharesources.com                                                                                   |                       |
| <b>Emergency phone number</b>                                 | Emergency Assistance                                                                                       | Chemtrec 800-424-9300 |

## 2. Hazard(s) identification

|                              |                                                 |                                         |
|------------------------------|-------------------------------------------------|-----------------------------------------|
| <b>Physical hazards</b>      | Not classified.                                 |                                         |
| <b>Health hazards</b>        | Serious eye damage/eye irritation               | Category 2                              |
|                              | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| <b>Environmental hazards</b> | Not classified.                                 |                                         |
| <b>OSHA defined hazards</b>  | Not classified.                                 |                                         |
| <b>Label elements</b>        |                                                 |                                         |



|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal word</b>                               | Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hazard statement</b>                          | Causes serious eye irritation. May cause respiratory irritation.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Precautionary statement</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Prevention</b>                                | Do not eat, drink or smoke when using this product. Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.                                                                                                                                                                                                                                                      |
| <b>Response</b>                                  | If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. |
| <b>Storage</b>                                   | Store in a well-ventilated place. Keep container tightly closed. Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Disposal</b>                                  | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.                                                                                                                                                                                                                                                                                                      |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Supplemental information</b>                  | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 3. Composition/information on ingredients

### Substances

| Chemical name     | Common name and synonyms | CAS number | %   |
|-------------------|--------------------------|------------|-----|
| CALCIUM CARBONATE |                          | 471-34-1   | 100 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

|                                                                               |                                                                                                                                                                                              |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.                                                                              |
| <b>Skin contact</b>                                                           | Remove and isolate contaminated clothing and shoes. Rinse skin with water/shower. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.          |
| <b>Eye contact</b>                                                            | Rinse with water. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.          |
| <b>Ingestion</b>                                                              | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not use mouth-to-mouth method if victim ingested the substance. Get medical attention if symptoms occur. |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation.                                                    |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.                                                                       |
| <b>General information</b>                                                    | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.    |

## 5. Fire-fighting measures

|                                                                      |                                                                                                                                                              |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                       |
| <b>Specific hazards arising from the chemical</b>                    | None known.                                                                                                                                                  |
| <b>Special protective equipment and precautions for firefighters</b> | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. |
| <b>Fire fighting equipment/instructions</b>                          | Use water spray to cool unopened containers.                                                                                                                 |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                   |
| <b>General fire hazards</b>                                          | No unusual fire or explosion hazards noted.                                                                                                                  |

## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                    |
| <b>Methods and materials for containment and cleaning up</b>               | The product is immiscible with water and will spread on the water surface. Should not be released into the environment. Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. |
| <b>Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 7. Handling and storage

|                                                                     |                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).                                                                                                                     |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Material                         | Type | Value    | Form        |
|----------------------------------|------|----------|-------------|
| CALCIUM CARBONATE (CAS 471-34-1) | TWA  | 5 mg/m3  | Respirable. |
|                                  |      | 10 mg/m3 | Total       |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** Respirator must be worn if exposed to dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

**Form** Powder.

**Color** White.

**Odor** Odorless.

**Odor threshold** Not available.

**pH** 8 - 9 (slurry in water)

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** nearly insoluble

|                                                |                        |
|------------------------------------------------|------------------------|
| <b>Partition coefficient (n-octanol/water)</b> | Not available.         |
| <b>Auto-ignition temperature</b>               | Not available.         |
| <b>Decomposition temperature</b>               | 1517 °F (825 °C)       |
| <b>Viscosity</b>                               | Not available.         |
| <b>Other information</b>                       |                        |
| <b>Density</b>                                 | 2.80 g/cm <sup>3</sup> |
| <b>Molecular formula</b>                       | CaCO <sub>3</sub>      |
| <b>Molecular weight</b>                        | 100.09 g/mol           |
| <b>Specific gravity</b>                        | 2.8                    |

## 10. Stability and reactivity

|                                           |                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                                           |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                                                             |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                                                                                                |
| <b>Conditions to avoid</b>                | None known. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). |
| <b>Incompatible materials</b>             | Strong acids.                                                                                                                           |
| <b>Hazardous decomposition products</b>   | Carbon oxides.                                                                                                                          |

## 11. Toxicological information

### Information on likely routes of exposure

|                                                                                     |                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                                   | Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.                                                |
| <b>Skin contact</b>                                                                 | No adverse effects due to skin contact are expected.                                                                                      |
| <b>Eye contact</b>                                                                  | Causes serious eye irritation. Dust in the eyes will cause irritation.                                                                    |
| <b>Ingestion</b>                                                                    | Expected to be a low ingestion hazard.                                                                                                    |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation. |

### Information on toxicological effects

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>Acute toxicity</b> | May cause respiratory irritation. |
|-----------------------|-----------------------------------|

| <b>Product</b>                   | <b>Species</b> | <b>Test Results</b> |
|----------------------------------|----------------|---------------------|
| CALCIUM CARBONATE (CAS 471-34-1) |                |                     |
| <b>Acute</b>                     |                |                     |
| <i>Oral</i>                      |                |                     |
| LD50                             | Mouse          | 6450 mg/kg          |
|                                  | Rat            | 6450 mg/kg          |

\* Estimates for product may be based on additional component data not shown.

|                                                           |                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>                          | Prolonged skin contact may cause temporary irritation.                                                           |
| <b>Serious eye damage/eye irritation</b>                  | Causes serious eye irritation.                                                                                   |
| <b>Respiratory or skin sensitization</b>                  |                                                                                                                  |
| <b>Respiratory sensitization</b>                          | Not available.                                                                                                   |
| <b>Skin sensitization</b>                                 | None known.                                                                                                      |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>   | May cause respiratory irritation.                                                                                |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                                                                                                  |
| <b>Aspiration hazard</b>                                  | Not available.                                                                                                   |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful.                                                                             |

Material name: CALCIUM CARBONATE, CHELOMETRIC STANDARD (ACS)

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product                          | Species | Test Results                                                            |
|----------------------------------|---------|-------------------------------------------------------------------------|
| CALCIUM CARBONATE (CAS 471-34-1) |         |                                                                         |
| <b>Aquatic</b>                   |         |                                                                         |
| Fish                             | LC50    | Western mosquitofish ( <i>Gambusia affinis</i> ) > 56000 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** None known.  
**Bioaccumulative potential** No data available.  
**Mobility in soil** No data available.  
**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Local disposal regulations** Dispose in accordance with all applicable regulations.  
**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  
**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).  
**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Food and Drug Administration (FDA)**Total food additive  
Direct food additive  
GRAS food additive**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                         | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)                                          | Yes                    |
| New Zealand                 | New Zealand Inventory                                                  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** December-08-2014**Version #** 01**Disclaimer** Alpha Resources, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in this sheet was written based on the best knowledge and experience currently available.**Revision Information** Product and Company Identification: Product Codes  
Composition / Information on Ingredients: Disclosure Overrides  
Physical & Chemical Properties: Multiple Properties