



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** SLURRY BUSTER™ DRY  
**Version #** 01  
**Revision date** 23-December-2009  
**Chemical description** Hypochlorite  
**CAS #** Mixture  
**Company** CETCO  
Construction Drilling Products  
2870 Forbs Avenue  
Hoffman Estates, IL 60192 US  
safetydata@amcol.com  
<http://www.constructiondrilling.com/>  
General Information (800) 527-9948  
CHEMTREC® (800) 424-9300

## 2. Hazards Identification

**Emergency overview** Toxic by inhalation. Corrosive to skin and eyes. Strong oxidizer.

**Potential health effects**

**Eyes** This product causes eye burns. Symptoms include itching, burning, redness and tearing. Risk of corneal damage.

**Skin** Dust has an irritating effect on moist skin. Substance is corrosive. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Inhalation** Dust may irritate throat and respiratory system and cause coughing. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Prolonged inhalation may be harmful. Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

**Ingestion** Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
CALCIUM HYPOCHLORITE, DRY	7778-54-3	60 - 80
CALCIUM CHLORATE	10137-74-3	2.5 - 10
CALCIUM HYDROXIDE	1305-62-0	2.5 - 10
CARBONIC ACID, CALCIUM SALT (1:1)	471-34-1	2.5 - 10
Non-hazardous and other components below reportable levels		20 - 40

**Composition comments** Occupational Exposure Limits for constituents are listed in Section 8.

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.

**Skin contact** Wash off with soap and water. Wash off immediately with plenty of water for at least 15 minutes. Remove and isolate contaminated clothing and shoes. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.

**Inhalation** Move to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

**Ingestion** If swallowed, do NOT induce vomiting. Have victim rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

## 5. Fire Fighting Measures

**Flammable properties** Containers may explode when heated. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Extinguishing media

**Suitable extinguishing media** Water spray, fog or mist.

## Protection of firefighters

**Protective equipment and precautions for firefighters** Move containers from fire area if you can do it without risk. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

**Hazardous combustion products** Fire may produce irritating, corrosive and/or toxic gases.

## 6. Accidental Release Measures

**Personal precautions** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ventilate closed spaces before entering them. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Runoff from fire control or dilution water may cause pollution. Contact local authorities in case of spillage to drain/aquatic environment. US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

**Methods for containment** Dike the spilled material, where this is possible. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After removal flush contaminated area thoroughly with water. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

**Handling** Handle and open container with care. Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe gas/fumes/vapor/spray. Keep away from heat and flame. "Empty" containers retain product residue (liquid or vapor) and can be dangerous.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from freezing. Store between 5°C and 35°C. Do not store in direct sunlight. Keep away from heat and sources of ignition. Do not store near acids. Vent container carefully, as needed to relieve pressure.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Components	Type	Value
CALCIUM HYDROXIDE (1305-62-0)	TWA	5 mg/m3

#### U.S. - OSHA

Components	Type	Value	Form
CALCIUM HYDROXIDE (1305-62-0)	PEL	15 mg/m3	Total dust.
		5 mg/m3	Respirable fraction.
	TWA	5 mg/m3	

**Engineering controls** The risk of inhalation of dust must be minimized as much as possible. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Personal protective equipment

**Eye / face protection** Wear chemical goggles and face shield.

**Skin protection** The use of neoprene gloves is recommended. Use of an impervious apron is recommended. Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection** The risk of inhalation of dust must be minimized as much as possible. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke.

Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Powder.
<b>Color</b>	White.
<b>Odor</b>	Chlorine.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Free flowing wettable powder.
<b>pH</b>	10.4 - 10.8
<b>Melting point</b>	521.6 °F (272 °C) estimated
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	2690.6 °F (1477 °C) estimated
<b>Flash point</b>	Not flammable
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	0.18 hPa estimated
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	1.9392 estimated
<b>Relative density</b>	0.8 g/cm <sup>3</sup>
<b>Solubility (water)</b>	18 mg/l
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	0 % estimated
<b>Percent volatile</b>	0 % estimated
<b>Molecular weight</b>	143.0000

**10. Chemical Stability & Reactivity Information**

<b>Chemical stability</b>	Stable under normal temperature conditions. To avoid thermal decomposition, do not overheat.
<b>Conditions to avoid</b>	High temperatures. Avoid temperatures above 95°F (35°C). Exposure to moisture.
<b>Incompatible materials</b>	This product reacts with acids. This product may react with strong reducing agents. Reaction with water or moist air will release toxic, corrosive or flammable gases.
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating gases and vapors. May develop chlorine if mixed with acidic solutions.
<b>Possibility of hazardous reactions</b>	Will not occur.

**11. Toxicological Information****Toxicological data****Product**

SLURRY BUSTER™ DRY (Mixture)

**Test Results**

Acute Dermal LD50 Rabbit: 50550 mg/kg  
Acute Dermal LD50 Rat: 58780 mg/kg estimated  
Acute Oral LD50 Mouse: 29800 mg/kg estimated  
Acute Oral LD50 Rat: 1179 mg/kg estimated

**Components**

CALCIUM CHLORATE (10137-74-3)  
 CALCIUM HYDROXIDE (1305-62-0)  
 CARBONIC ACID, CALCIUM SALT (1:1) (471-34-1)  
 CALCIUM HYPOCHLORITE, DRY (7778-54-3)

**Test Results**

Acute Oral LD50 Rat: 4500 mg/kg  
 Acute Oral LD50 Rat: 7340 mg/kg  
 Acute Oral LD50 Rat: 6450 mg/kg  
 Acute Dermal LD50 Rabbit: 2000.0001 mg/kg  
 Acute Oral LD50 Rat: 850 mg/kg

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

**Acute effects** Corrosive effects. Dust may irritate the eyes and the respiratory system.  
**Sensitization** Not a skin sensitizer.  
**Carcinogenicity** Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.  
**Mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  
**Teratogenicity** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

**12. Ecological Information****Ecotoxicological data****Product**

SLURRY BUSTER™ DRY (Mixture)

**Test Results**

EC50 Daphnia: 1.2982 mg/l 48.00 Hours estimated  
 LC50 Fish: 0.3496 mg/l 96.00 Hours estimated

**Components**

CALCIUM HYDROXIDE (1305-62-0)  
 CARBONIC ACID, CALCIUM SALT (1:1) (471-34-1)  
 CALCIUM HYPOCHLORITE, DRY (7778-54-3)

**Test Results**

LC50 Fish: 160 mg/L 96.00 Hours  
 LC50 Zambezi barbel (Clarias gariepinus): 33.8844 mg/l 96.00 Hours  
 LC50 Western mosquitofish (Gambusia affinis): > 56000 mg/l 96.00 Hours  
 EC50 Rotifer (Philodina acuticornis): 0.07 mg/l 48.00 Hours  
 LC50 Channel catfish (Ictalurus punctatus): 0.026 - 0.145 mg/l 96.00 Hours  
 LC50 Fish: 0.5 mg/L 96.00 Hours

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

**Ecotoxicity** Dangerous for the environment. Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the environment.  
**Environmental effects** Harmful to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
**Persistence and degradability** Not available.

**13. Disposal Considerations**

**Disposal instructions** Dispose in accordance with all applicable regulations. Do not allow this material to drain into sewers/water supplies.

**14. Transport Information****DOT****Basic shipping requirements:**

**UN number** UN2880  
**Proper shipping name** Calcium hypochlorite, hydrated  
**Hazard class** 5.1  
**Packing group** II

**Additional information:**

**Special provisions** 165, 166, IB8, IP2, IP4, IP13, W9  
**Packaging exceptions** 152  
**Packaging non bulk** 212

Packaging bulk 240  
ERG number 140



DOT

#### IATA

**Basic shipping requirements:**

Proper shipping name Calcium hypochlorite, hydrated  
Hazard class 5.1  
UN number UN2880  
Packing group II  
Additional information:  
Packaging exceptions 152  
Packaging non bulk 212  
Packaging bulk 240  
Labels required 5.1



IATA

#### IMDG

**Basic shipping requirements:**

Proper shipping name Calcium hypochlorite, hydrated  
Hazard class 5.1  
UN number UN2880  
Packing group II  
Additional information:  
Packaging exceptions 152  
Labels required 5.1



IMDG

## 15. Regulatory Information

### US federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

**CERCLA (Superfund) reportable quantity**

CALCIUM HYPOCHLORITE, DRY: 10.0000

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

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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (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	No

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

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

CALCIUM CHLORATE (10137-74-3) Listed.  
 CALCIUM HYDROXIDE (1305-62-0) Listed.  
 CALCIUM HYPOCHLORITE, DRY (7778-54-3) Listed.

**16. Other Information**

**Further information** This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**HMIS ratings**



**NFPA ratings**

Health: 3  
 Flammability: 0  
 Instability: 1  
 Special hazards: OX

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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**Issue date**

23-December-2009

**Other information**

CETCO is an AMCOL International company.