



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SLURRY BUSTER™
Version # 17
Revision date 09-February-2009
Chemical description Sodium Hypochlorite Solution
CAS # Mixture
Manufacturer 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 CORROSIVE

Potential health effects

Eyes Avoid contact with eyes. Contact will irritate or burn eyes. Symptoms include itching, burning, redness and tearing. Dust or powder may irritate eye tissue, Symptoms include itching, burning, redness and tearing.

Skin Substance is corrosive. Contact causes severe skin irritation and possible burns. This product may cause irritation to the skin, Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis.

Inhalation High vapor concentrations are irritating to the eyes, nose, throat, and lungs. Prolonged inhalation may be harmful. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Inhalation of dusts may cause respiratory irritation. For additional information on inhalation hazards, see Section 11 of this safety data sheet.

Ingestion Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

3. Composition / Information on Ingredients

Components	CAS #	Percent
SODIUM HYPOCHLORITE	7681-52-9	10 - 20
SODIUM HYDROXIDE	1310-73-2	0.1 - 1
Non-hazardous and other components below reportable levels		80 - 90

Composition comments This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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	Dry chemical, CO ₂ , water spray or regular foam. Use any media suitable for the surrounding fires.
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. Avoid skin contact and inhalation of vapors during disposal of spills.
Environmental precautions	Do not contaminate water. Runoff from fire control or dilution water may cause pollution. Prevent further leakage or spillage if safe to do so.
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. 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

SODIUM HYDROXIDE (1310-73-2)

Type

TWA

Value

2 mg/m³

U.S. - OSHA

Components

SODIUM HYDROXIDE (1310-73-2)

Type

Ceiling
PEL

Value

2 mg/m³
2 mg/m³

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

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

Appearance	Liquid.
Color	Yellow.
Odor	Chlorine.
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
pH	10 - 12
Melting point	Not available.
Freezing point	Not available.
Boiling point	Decomposes
Flash point	Not flammable
Evaporation rate	Same as Water
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	0.1 hPa estimated
Vapor density	Same as Water
Specific gravity	1.16
Relative density	Not available.
Solubility (water)	Completely Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Bulk density	10.2 lb/gal

10. Chemical Stability & Reactivity Information

Chemical stability	Stable, however, may decompose if heated.
Conditions to avoid	High temperatures. Reacts violently with acids.
Incompatible materials	This product reacts with acids. This product may react with strong reducing agents. Contact with metals may evolve flammable hydrogen gas.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapors. May develop chlorine if mixed with acidic solutions.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data

Product

SLURRY BUSTER™ (Mixture)

Test Results

Acute Dermal LD50 Rabbit: 50550 mg/kg
Acute Oral LD50 Mouse: 46869 mg/kg estimated
Acute Oral LD50 Rat: 69131 mg/kg estimated

Components

SODIUM HYDROXIDE (1310-73-2)

Test Results

Acute Dermal LD50 Rabbit: 1350 mg/kg
Acute Other LD50 Mouse: 40 mg/kg
Acute Dermal LD50 Rabbit: 10000.0001 mg/kg
Acute Oral LD50 Mouse: 5800 mg/kg

Components

SODIUM HYPOCHLORITE (7681-52-9)

Test Results

Acute Oral LD50 Rat: 8200 mg/kg

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

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

SLURRY BUSTER™ (Mixture)

Test Results

EC50 Daphnia: 4086 mg/l 48.00 Hours estimated

LC50 Fish: 13.7 mg/l 96.00 Hours estimated

Components

SODIUM HYDROXIDE (1310-73-2)

Test ResultsEC50 Water flea (Ceriodaphnia dubia): 34.59 - 47.13 mg/l
48.00 Hours

LC50 Fish: 45.4 mg/L 96.00 Hours

SODIUM HYPOCHLORITE (7681-52-9)

LC50 Fish: 0.42 mg/L 96.00 Hours

LC50 Pink salmon (Oncorhynchus gorbuscha): 0.023 - 0.052
mg/l 96.00 Hours

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

Ecotoxicity

Components of this product are hazardous to aquatic life. In high concentrations, this product may be dangerous to aquatic life and fouling to shorelines.

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	UN1791
Proper shipping name	Hypochlorite solutions
Hazard class	8
Packing group	III
Additional information:	
Special provisions	IB3, N34, T4, TP2, TP24
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ERG number	154



DOT

IATA**Basic shipping requirements:**

Proper shipping name	Hypochlorite solutions
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Hazard class	8
UN number	UN1791
Packing group	III
Additional information:	
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
Labels required	8



IATA

IMDG

Basic shipping requirements:

Proper shipping name	Hypochlorite solutions
Hazard class	8
UN number	UN1791
Packing group	III
Additional information:	
Packaging exceptions	154
Labels required	8



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

SODIUM HYPOCHLORITE: 100.0000
 SODIUM HYDROXIDE: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - No
 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)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
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 New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
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)

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

SODIUM HYDROXIDE (1310-73-2) Listed.
 SODIUM HYPOCHLORITE (7681-52-9) 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: 1
 Flammability: 0
 Instability: 0

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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Other information CETCO is an AMCOL International company.