



1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: Clay Breaker
PRODUCT NAME: Quaternary Ammonium Compound
RECOMMENDED USE: Clay stabilizer in industrial applications
SUPPLIER: DCS Fluid Solutions, LP
P.O. Box 1027
Graham, TX 76450
(940) 521-0400
www.dcsmud.com
24-HOUR EMERGENCY TELEPHONE: 940-521-0400

2. HAZARDS IDENTIFICATION

CLASSIFICATION: Acute toxicity 4, Oral
SIGNAL WORD: Warning
HAZARD STATEMENTS: Harmful if swallowed.
SYMBOLS:



PRECAUTIONARY STATEMENTS: Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Avoid contact with eye, skin and clothing.
Wear protective gloves, splash apron, safety glasses or chemical safety goggles.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position 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 you feel unwell, or irritation of eye/skin persists, call a POISON CENTER or physician.
Store locked up in closed containers at moderate temperatures.
Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:
Trade secret

CAS No.:
Trade secret

WEIGHT %:
25



4. FIRST-AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately, start cardiopulmonary resuscitation (CPR) or automated external defibrillator.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Get immediate medical attention.

Note to physician: No specific treatment. Treat according to symptoms present.

5. FIREFIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Use appropriate extinguishing media for the surrounding fire. The product is not flammable.

Unsuitable Extinguishing Media: Not applicable.

Specific Hazards:

No unusual fire or explosion hazards noted.

Special Protective Equipment and Precautions for Fire-Fighters:

Fire-fighters should wear full fire-fighting gear including self-contained breathing apparatus.
Keep containers cool using water spray or fog.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Use personal protective equipment (PPE) specified in Section 8.

Environmental Precautions:

Prevent spilled material from entering sewers, storm drains and public waters.

Methods for Containment:



Stop spill/release if it can be done safely. Contain spills with dikes of sand, earth or other absorbents to prevent migration and entry into the environment and waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods for Cleanup:

Clean up spills immediately. Keep area well ventilated. Flush area with water. Do NOT wash into sewer. Recover as much of the solution as possible by vacuum. Absorb remaining solution with inert, non-combustible material. Place in suitable salvage containers. Dispose of waste in accordance with local, state and federal regulations in a chemical waste landfill.

7. HANDLING AND STORAGE

Handling Precautions:

Always wear recommended personal protection equipment. Do not get in eyes, on skin or clothing. Do not swallow. Use with adequate ventilation. Eating, drinking and smoking in work areas is prohibited.

Hygienic Work Practices:

Use good personal hygiene practices. Wash hands and skin thoroughly after handling. Promptly remove contaminated clothing and wash before reuse. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Storage Precautions:

Keep containers tightly closed and properly labeled. Store in cool, dry, well-ventilated area away from heat, sources of ignition and direct sunlight. Keep container closed when not in use. Keep in original container. Store containers in upright position. Since emptied containers retain product residue, follow hazard precautions even when empty.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Appropriate Engineering Controls:

Ensure adequate ventilation.

Emergency eye wash and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment:

Eye Protection – Wear chemical safety glasses or safety goggles.

Skin Protection – Wear chemical resistant gloves and splash apron.

Respiratory Protection – Ensure adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to amber liquid
Odor:	Very faint
Odor Threshold:	Not available
pH:	6.5 to 9.0



Melting Point/Freezing Point:	Not available / 16° F
Boiling Point:	>212° F
Flash Point:	>201° F
Evaporation Rate:	Not available
Flammability:	Not available
Upper Flammability Limit:	Not available
Lower Flammability Limit:	Not available
Vapor Pressure:	Not available
Vapor Density:	Not available
Relative Density:	1.01 - 1.03 Specific Gravity
Solubility:	Complete in water
Partition Coefficient:	Not available
Auto-Ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid temperatures exceeding flash point and contact with incompatible material.

Incompatible Materials: Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products: Irritants. Toxic gas. Hydrogen chloride. May include oxides of carbon & nitrogen.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation: Prolonged inhalation may be harmful.

Ingestion: Harmful if swallowed. May cause nausea, vomiting, diarrhea or more severe symptoms.

Skin Contact: Not a dermal irritant.

Eye Contact: Not an ocular irritant.

Acute Toxicity: Harmful if swallowed

LD50 and LC50: Acute LD50: 1000 – 4000 mg/kg, Rat, Oral

Respiratory or Skin Sensitization: No data available

Carcinogenicity: Not considered a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity: Not expected to be hazardous by OSHA criteria.

Germ Cell Mutagenicity: No data available

Specific Target Organ Toxicity – Single Exposure: No data available

Specific Target Organ Toxicity – Repeated Exposure: No data available

Aspiration Hazard: Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not classified

Persistence and Degradability:



ClayBreaker has a biodegradation percentage of 85.2% and is considered to have ready biodegradability. Test of ready biodegradability are stringent tests that provide limited opportunity for acclimation and biodegradation to occur. A positive result in a test of ready biodegradability is an indication that the test substance will undergo rapid and ultimate biodegradation in the environment. OECD Guideline 301B has set the standard for ready biodegradability at 60%. ClayBreaker exceeds this standard for environmental friendliness.

Bioaccumulative Potential: Not established

Mobility in Soil: No data available

Other Adverse Effects: No adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Follow approved local beneficial reuse guidelines for uncontaminated spent drilling fluids. If contaminated, dispose of in a licensed industrial landfill according to local, state and federal regulations. If released to the environment for other than its intended purpose, this product does not meet, in its present state, the definition of a hazardous waste under 40 CFR 261. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material. Do not use for other purposes. Return containers to reclamation centers for proper cleaning and reuse.

714. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Not regulated as dangerous goods.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS (TDG):

Not regulated as dangerous goods.

IMDG:

Not regulated as dangerous goods.

IATA:

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

OSHA: This product is listed as a hazardous material under the criteria of Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. We request that you make all information in the Material Safety Data Sheet available to your employees.

TSCA: All components are on the TSCA Inventory List.

CERCLA: No reportable quantity.

SARA TITLE III:

Extremely Hazardous Substance (EHS):	No
Section 312 (Tier II) Ratings:	Immediate (acute) health hazard
Section 313:	Not applicable



RCRA: No

Canada WHMIS: Not on inventory

16. OTHER INFORMATION

CURRENT ISSUE DATE: May 18, 2018

Updated to comply with new GHS standard and SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

DCS Fluids Solutions, LP believes the information contained in this material safety data sheet is accurate based on the information supplied by reputable suppliers of our raw materials. We cannot make any assertions as to its reliability or completeness; therefore, the user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. No warranty, either expressed or implied, or liability of any nature with respect to this product or to the data herein is made or incurred hereunder.