



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : ClaProtek-CF
Chemical Name : Not Applicable, A Blend
Chemical Family : Quaternary Ammonium Salt
Manufacturer : CESI Chemical (a Flotek Industries, Inc. company)
: 1004 S. Plainsman Road, Marlow, OK 73055
Emergency Phone : 1-405-282-8510
Prepared by : Denise Patterson
Phone : (580)658-6608
Issue Date : 04/03/2002
Revised Date : 04/16/2009

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient : Choline Bicarbonate
CAS No. : 78-73-9
Wt. Percent Range : 35-50
OSHA PEL : Not established for this product
ACGIH TLV : Not established for this product
LD50 : Not available
LC50 : Not available

3. HAZARDS IDENTIFICATION

Human health hazards
Acute health hazards : None known
Chronic health hazards : None known
Route(s) of entry : Eyes and skin
Safety hazards : None known
Environmental hazards : None known

4. FIRST AID MEASURES

Eye : Immediately flush with copious amounts of water for at least 15 minutes while holding eyelids open. If irritation persists, seek medical attention.
Skin : Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If irritation develops, seek medical attention.
Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek prompt medical attention.
Ingestion : Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point : Not applicable
Lower Explosion Limit : Not applicable
Upper Explosion limit : Not applicable
Extinguishing Media : Water fog, "alcohol" foam, carbon dioxide, or dry chemical
Protective equipment : NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and turnout gear.
Hazardous combustion products : Compounds of carbon, hydrogen, nitrogen and oxygen

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear hand, eye, protective clothing and respiratory protective equipment to eliminate contact.
- General precautions : Eliminate ignition sources. Evacuate all non-essential personnel.
- Small spills : Soak up residue with an inert absorbent and place into appropriate plastic containers for disposal or reclamation. Flush contaminated area thoroughly with water. Retain washings as contaminated waste. Do not discharge to streams or sewers.
- Large spills : If possible, stop the flow of chemical. Dike to contain and prevent spreading. Remove with vacuum truck or pump to salvage vessels. Treat residue as for small spills.

7. HANDLING AND STORAGE

- Handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Do not take internally. Wear appropriate protective clothing and equipment during handling. Wash thoroughly after handling. Remove contaminated clothing and laundry before reuse.
- Storage : Store away from heat, sparks and open flames. Keep container closed when not in use. Store drums with the bung up. Carefully vent container before removing bung.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational exposure standards : Not established for the product.
- Hand protection : Neoprene or nitrile rubber gloves.
- Eye protection : Chemical splash goggles and face shield if conditions warrant.
- Respiratory protection : Not normally required.
- Engineering control measures : General (mechanical) room ventilation is expected to be satisfactory.
- Other : Emergency eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid
- Appearance : Clear
- Color : Green
- Odor : Amine
- Specific Gravity : 1.093
- Bulk Density : 9.12 lbs/gal
- Boiling Point : Not available
- Freezing Point : Not available
- Solubility in water : Complete
- pH : 8.5
- Percent Volatiles : Not available
- Vapor Pressure : Not determined

10. STABILITY AND REACTIVITY

- Stability : Stable
- Conditions to avoid : None known
- Hazardous polymerization : Will not occur
- Hazardous decomposition products : Compounds of carbon, hydrogen, nitrogen and oxygen including trace amounts of trimethylamine and dimethylamine.
- Incompatibility : Contact with acids may generate heat.

11. TOXICOLOGICAL INFORMATION

- Acute Effects
- Eye : None expected.
- Skin : None expected.
- Inhalation : None expected.
- Ingestion : No information is available.
- Chronic Effects : None known
- Carcinogenicity : None of the ingredients are listed in NTP, IARC monographs or OSHA regulated. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Environmental Fate : Product is expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste disposal : Recycle if possible. Otherwise dispose to licensed disposal contractor.
Product disposal : Recycle if possible. Otherwise comply with all local, state and federal regulations.

Container disposal : Drain container thoroughly. Triple rinse with water. Send to reclaimer or dispose of properly. Comply with all local, state and federal regulations.

14. TRANSPORT INFORMATION

LAND (D.O.T.)

Shipping Name : Not Regulated
Label(s) required : None
Emergency Phone : (405) 282-8510

AIR (IATA)

Shipping Name : Not Regulated
Label(s) required : None

SEA (IMDG)

Shipping Name : Not Regulated
Label(s) required : None

15. REGULATORY INFORMATION

SARA Title III

Section 302 : Extremely Hazardous Substances (40CFR355): This product does not contain ingredients listed in Appendix A and B.

Sections 311/312

Immediate (acute) health hazard : NO

Delayed (chronic) health hazard : NO

Fire hazard : NO

Sudden Release of Pressure Hazard : NO

Reactive Hazard : NO

Section 313 Reportable Quantities : None

TSCA (USA) : All components listed.

DSL (Canada) : Listed on NDSL

CERCLA

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling (800) 424-8802.

Reportable Quantity : Not determined for the product.

16. OTHER INFORMATION

NFPA 704

Health : 1
Fire : 0
Reactivity : 0
Special : None

HMIS

Health : 1
Fire : 0
Reactivity : 0
Special : None

Disclaimer of Liability : The information contained in this MSDS was obtained from sources which we believe are reliable. However, the information is without any warranty, express or implied, regarding correctness. The methods of handling, storage, use and disposal of the product are beyond our control and may be outside the scope of our knowledge. For these reasons, we do not assume responsibility and

expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.