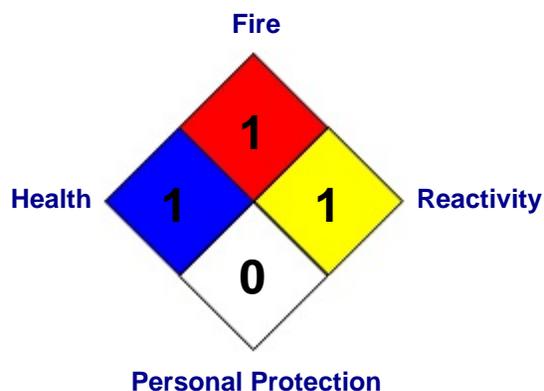




HMS Hazard Rating:

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal



I. Chemical Product and Company Identification

Product Name: CW-3K
Identification #: 35-460-3000
Product Use/Class: Fracturing Fluid Loss Additive
Supplier: Superior Well Services
Manufacturer: Weatherford Fracturing Technologies
Emergency Contact: CHEMTREC 1 (800) 424-9300
Prepared By: RAA
Date Prepared: 03/12/2008

II. Composition/Information on Ingredients

Chemical Name: Proprietary Mixture
CAS Number: NI
Percent by Mass Less Than: NI

Exposure Limits

Threshold Limit Value - Time Weighted Average: 10 mg/m3 (total dust)
Threshold Limit Value - Short Term Exposure Limit: NI
Permissible Exposure Limit - Time Weighted Average: 10 mg/m3 (for nuisance dust)
Permissible Exposure Limit - Ceiling: NI
Company Threshold Limit - Time Weighted Average: NI
Skin: NI

III. Hazardous Identification

Emergency Overview:	Warning! White, free flowing powder. Slip hazard when wet. Contains small amount of strong oxidizer.
Eye Contact:	Dust of this product may be irritating and can cause pain, tearing, reddening, and swelling accompanied by a stinging sensation and burns.
Skin Contact:	May cause skin irritation and burns. Allergic reactions are possible.
Inhalation:	May be irritating to mucous membranes and lung tissue. Edema of lungs can result. Symptoms may include sore throat, shortness of breath, inflammation of nasal passages, coughing, and wheezing.
Ingestion:	May be irritating to mouth, throat, and stomach, causing burns and possible perforation. Results may include abdominal pain, nausea, and vomiting.
Chronic Harards:	Prolonged exposure of skin may cause allergic reaction with dermatitis.

Effects of Overexposure

Primary Route(s) of Entry:	n Skin Contact	n Eye Contact	n Ingestion
	o Skin Absorbtion	n Inhalation	

IV. First Aid Measures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing and wash before reuse. Wash skin with soap and water. Get medical attention if irritation persists.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	If swallowed, DO NOT induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention IMMEDIATELY.

V. Fire Fighting Measures

Flash Point:	NA
Auto Ignition Temperature:	Not Determined
Lower Explosive Temp.:	N/A
Upper Explosive Temp.:	N/A
Extinguishing Media:	CO2, Dry Chemical, Foam
Unusual Fire and Explosive Harards:	This product emits toxic gases under fire conditions. Eliminate all sources of ignition. Dust in a sufficient concentration in air can result in an explosive mixture. This product is an explosion hazard when mixed with finely powdered organic matter, metal powder, or reducing agents.
Special Fire Fighting Procedures:	Wet product is a slip hazard. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Use water to keep containers cool.

VI. Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:	Wear appropriate personal protective equipment. Keep unprotected persons from entering spill area. Use non-sparking tools and equipment. Product becomes slippery when wet. Absorb wet material with inert materials. For dry spills, sweep material into a pile and then place in a chemical waste container. Avoid creating dust conditions. (See Exposure Controls/Personal Protection Section.) Spilled material should be contained and disposed of properly, according to federal, state, and local regulations.
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VII. Handling and Storage

Handling:	Avoid contact with eyes, skin or clothing. Avoid breathing dust. Use with adequate ventilation. DO NOT take internally. Wear appropriate PPE. Wash thoroughly after handling.
Storage:	Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials. Do not store near combustible materials or on wood floors. Containers of this material may be hazardous when empty since they retain product residues (vapor, liquid).

VIII. Exposure Controls/Personal Protection

Engineering Controls:	Good general ventilation should be sufficient to control airborne levels.
Respiratory Protection:	No protection needed under normal use and conditions. Use a NIOSH/MSHA approved particulate respirator when airborne concentrations are expected to exceed exposure limits.
Skin Protection:	Where contact is likely, wear chemical resistant gloves and rubber boots.
Eye Protection:	Wear safety glasses with side shields (or goggles) and a face shield.
Other Protective Equipment:	Emergency eyewash stations and deluge showers should be available in the work area.
Hygienic Practices:	Wash hands before eating.

IX. Physical and Chemical Properties

Boiling Point:	N/A	Vapor Density:	Not Determined
Odor:	None	Odor Threshold:	Not Determined
Appearance:	White free flowing powder	Evaporation Rate:	NI
Solubility in H2O:	Soluble	Specific Gravity:	Bulk Density= 45-60 lb/cu ft.
Freeze Point:	N/A	pH at 50.0%:	8-8.5 for a 1% solution
Vapor Pressure:	Not Determined	Viscosity:	N/A
Physical State:	Solid		
Coefficient of Water Oil Distribution:	Not Determined		

X. Stability and Reactivity

Conditions to Avoid:	Wet and humid conditions. Incompatibles and combustible materials.
Incompatibility:	Strong oxidizers, reducing agents, organic material, sodium peroxide, water, powdered metal (especially aluminum).
Hazardous Decomposition Products:	Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, sulfur oxides, and sulfuric acid.
Hazardous Polymization:	Will not occur under normal conditions.
Stability:	This product is stable under normal storage conditions.

XI. Toxicological Properties

Toxicological Properties:	No product information is available.
Oral:	No product information is available.
Dermal:	No product information is available.
Inhalation:	No product information is available.

XII. Ecological Information

Ecological Properties: No product information is available.
Ecotoxicity: No product information is available.
Chemical Fate Information: No product information is available.

XIII. Disposal Consideration

Disposal Method: Consult local, state, and federal regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streams or sewers may be prohibited by federal, state, and local regulations.
RCRA Status: D001-Characteristic of ignitability.

XIV. Transportation Information

DOT Proper Shipping Name: Not DOT Regulated
DOT Technical Name:
DOT Hazard Class:
DOT Hazard Subclass:
DOT UN/NA Number:
Packing Group:
Resp. Guide Page:

XV. Regulatory Information

OSHA:	Non-hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
TSCA Status:	The ingredients of this product are listed on the Toxic Substances Control Act Chemical Substances Inventory.
CERCLA SARA:	This product has been reviewed according to the EPA 'Hazard Categories' promulgated under the sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: Immediate Health Hazard, Chronic Health Hazard Reactivity Hazard
SARA Section 313 Required Reporting:	

XVI. Other Information

Other Information: NA = Not applicable ND = Not Determined NI = No Information NE = Not Established

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, or when used in conjunction with other products, exposures must be evaluated by the user so that appropriate handling practices and training programs can be established to ensure safe workplace operations. This information is confidential to Superior Well Services, Ltd. (SWSI) and intended solely for the use of the individual or entity to whom they are directly distributed. Distribution or use beyond the individual or entity is strictly prohibited without the consent of SWSI.