



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material Name** KCLS-4  
**Revision Date** 12/21/2011  
**Version #** 2  
**Product Use** Clay Control  
**Manufacturer / Supplier** FRAC TECH SERVICES LLC  
2500 HWY 62 West  
Chickasha, OK 73018  
US  
General information: 1-405-222-2300  
**Emergency** 24 Hour Emergency: INFOTRAC: 1-800-535-5053

## 2. Hazards Identification

**Physical State** Liquid.  
**Appearance** Clear colorless liquid.  
**Emergency Overview** This product is considered as Non-Hazardous.  
**OSHA regulatory status** Not available.  
**Routes of exposure**  
**Eyes** Expected to cause no more than minor eye irritation. Avoid eye contact as good industrial practice.  
**Skin** Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact. Application of a similar product onto the skin of rabbits produced slight arrhythmia and edema.  
**Inhalation** Avoid breathing vapor or mist. Under normal use conditions, this product is not an inhalation hazard. Prolonged exposure to vapors may cause dizziness and headaches.  
**Ingestion** May cause nausea. Not expected to be acutely toxic by ingestion.  
**Potential environmental effects** Not available.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Proprietary non-hazardous materials*	Proprietary	Proprietary

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
\* Composition / specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communications standard 29 CFR 1910.1200

## 4. First Aid Measures

**First aid procedures**  
**Eye Contact** Immediately flush eyes with plenty of water for at least 15 minutes while holding the eyelids open.  
**Skin Contact** If irritation persists, see a physician.  
Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing. See a doctor if irritation persists.  
**Inhalation** Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Remove material from eyes, skin and clothing.  
**Ingestion** If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. If medical advice cannot be obtained, take the person, product container and MSDS to the nearest medical emergency center.  
**Notes to physician** Not available.

## 5. Fire Fighting Measures

<b>Flammable Properties</b>	Not available.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific Hazards arising from the Chemical</b>	None.
<b>Firefighting equipment / instructions</b>	Wear full protective clothing and positive pressure breathing apparatus.
<b>Specific Methods</b>	Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.
<b>Hazardous combustion products</b>	Not available.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection.
<b>Methods for cleaning up</b>	Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

## 7. Handling and Storage

<b>Handling</b>	Minimum feasible handling temperatures should be maintained.
<b>Storage</b>	Periods of exposure to high temperatures should be minimized.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.	Not available.	Not available.

#### US. OSHA Table Z-1 Limits for Air Contaminates (29 CFR 1910.1000)

Components	PEL	
	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.

#### Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2)

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.	Not available.	Not available.

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.	Not available.	Not available.

**Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents) Components**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.	Not available.	Not available.

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.	Not available.	Not available.

**Mexico. Occupational Exposure Limit Values**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Proprietary non-hazardous materials*	Not available.	Not available.	Not available.	Not available.

**Engineering controls**

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

**Personal protective equipment**

**Eye / face protection**

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

**Skin protection**

Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Exposed workers should wash exposed skin several times daily with soap and water.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry

cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

**Respiratory protection**

Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant.

Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

**General hygiene consideration**

Not available.

**9. Physical and Chemical Properties**

<b>Appearance:</b>	Clear colorless liquid
<b>Color</b>	Colorless
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>Physical State</b>	Liquid
<b>Form</b>	Liquid
<b>pH</b>	7.0 – 10.0
<b>Melting point</b>	Not available.
<b>Freezing point</b>	-15°F (-26.1°C)
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Not flammable
<b>Evaporation rate</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>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific Gravity</b>	1.070 – 1.091
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk Density</b>	9.007 lb/gal
<b>VOC</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Percent volatile</b>	Not available.

**10. Chemical Stability Reactivity Information**

<b>Chemical Stability</b>	Stable (thermal, light).
<b>Conditions to avoid</b>	Incompatible materials.

<b>Incompatible material</b>	May react with strong oxidizing materials.
<b>Hazardous decomposition products</b>	Normal combustion forms carbon dioxide and water vapor. Incomplete combustion can form carbon monoxide.
<b>Possibility of hazardous reaction</b>	Not available.

## 11. Toxicology Information

### Toxicological Data

<b>Components</b>	<b>Test Results</b>
Proprietary non-hazardous materials*	Not determined.

**Sensitization** Not available.

### Carcinogenicity

Proprietary non-hazardous materials\* Not available.

**Epidemiology** Not available.

**Mutagenicity** Not available.

**Reproductive effects** Not available.

**Teratogenicity** Not available.

**Further Information** Not available.

## 12. Ecological Information

### Ecotoxicological data

<b>Components</b>	<b>Test Results</b>
Proprietary non-hazardous materials*	Not determined.

**Ecotoxicity** Not available.

**Persistence and degradability** Not available.

**Bioaccumulation / Accumulation** Not available.

**Mobility in environmental media** Not available.

**Partition coefficient (n-octanol/water)** Not available.

## 13. Disposal Considerations

<b>Waste codes</b>	Not available.
<b>Disposal instructions</b>	This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. 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. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
<b>Contaminated packaging</b>	Not available.

## 14. Transport Information

### DOT

<b>UN number</b>	
<b>Proper shipping name</b>	Not regulated.
<b>Hazard class</b>	
<b>Packing Group</b>	
<b>Labels required</b>	
<b>DOT reportable quantity</b>	Not available.
<b>Additional information</b>	
<b>Special provisions</b>	
<b>Packaging exceptions</b>	
<b>Packaging non bulk</b>	
<b>Packaging bulk</b>	
<b>ERG number</b>	

### IATA

<b>UN number</b>	
<b>Proper shipping name</b>	NOT RESTRICTED
<b>Hazard class</b>	
<b>Packing group</b>	
<b>Additional information</b>	
<b>ERG code</b>	

### IMDG

<b>UN number</b>	
<b>Proper shipping name</b>	NOT RESTRICTED
<b>Hazard class</b>	
<b>Packing group</b>	
<b>EmS No</b>	
<b>IMDG Additional information:</b>	

## 15. Regulatory Information

### US federal regulation

**CERCLA (Superfund) Reportable Quantity:** None

### Superfund amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard Categories</b>	Immediate Hazard:	No
	Delayed Hazard:	No
	Fire Hazard:	No

Pressure Hazard: No

Reactivity Hazard: No

Section 302 extremely hazardous substance: None

Section 311 hazardous chemical: None

### Inventory Status

Country	Inventory Name	On Inventory *
Australia	AICS	No
Canada	DSL	Yes
Canada	NDSL	No
China	IECSC	No
Europe	EINECS	Yes
Europe	ELINCS	Yes
Japan	ENCS	No
Korea	ECL	No
New Zealand	NZI	No
United States / Puerto Rico	TSCA	Yes
Phillipines	PICCS	No

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

**WHMIS Information** Not available.

**State Regulation** Not available.

### 16. Other Information

**Further Information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
Health: 1  
Flammability: 0  
Physical Hazard: 0  
A HMIS® rating including an \* indicates a chronic hazard.

**NFPA ratings**  
Health: 1  
Flammability: 0  
Instability: 0

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