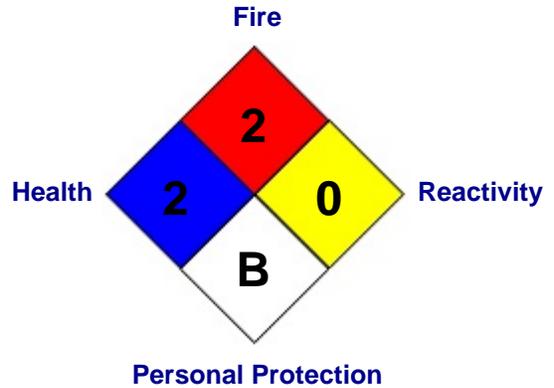




HMS Hazard Rating:

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



I. Chemical Product and Company Identification

Product Name: Super Pen 2000
Identification #: 35-525-2000
Product Use/Class: Surfactant & Foamer
Supplier: Superior Well Services
Manufacturer: Weatherford Fracturing Technologies
Emergency Contact: CHEMTREC 1 (800) 424-9300
Prepared By: RAA
Date Prepared: 04/23/2008

II. Composition/Information on Ingredients

Chemical Name: Ethylhexanol
CAS Number: 104-76-7
Percent by Mass Less Than: 40-70%

Exposure Limits

Threshold Limit Value - Time Weighted Average: NE
Threshold Limit Value - Short Term Exposure Limit: NE
Permissible Exposure Limit - Time Weighted Average: NE
Permissible Exposure Limit - Ceiling: NE
Company Threshold Limit - Time Weighted Average: NE
Skin: NE

Chemical Name: Proprietary Component
CAS Number: N/A
Percent by Mass Less Than: 10-30%

Exposure Limits

Threshold Limit Value - Time Weighted Average: NE
Threshold Limit Value - Short Term Exposure Limit: NE
Permissible Exposure Limit - Time Weighted Average: NE
Permissible Exposure Limit - Ceiling: NE
Company Threshold Limit - Time Weighted Average: NE
Skin: NE

III. Hazardous Identification

Emergency Overview:	No information.
Effects of Overexposure Eye Contact:	Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
Skin Contact:	May cause skin irritation. Allergic reactions are possible.
Inhalation:	Prolonged inhalation may be harmful and can cause headaches, dizziness, decreased blood pressure, changes in heart rate and cyanosis. May be irritating to mucus membranes and lung tissue.
Ingestion:	This material may be harmful or fatal if swallowed.
Chronic Harards:	Overexposure may cause kidney damage.

Primary Route(s) of Entry:	n Skin Contact	n Eye Contact	n Ingestion
	n 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:	Wash with soap and water. Get medical attention if irritation develops or persists.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Get prompt medical attention!
Ingestion:	If swallowed, DO NOT induce vomiting. Give 1-3 glasses of milk or water to dilute stomach contents. If vomiting occurs spontaneously, keep airway clear. Get medical attention IMMEDIATELY. Never give anything by mouth to an unconscious person.

V. Fire Fighting Measures

Flash Point:	150 DegF
Auto Ignition Temperature:	Not Determined
Lower Explosive Temp.:	0.9%
Upper Explosive Temp.:	10.0%
Extinguishing Media:	Alcohol Foam, CO2, Dry Chemical, Foam, Water Fog
Unusual Fire and Explosive Harards:	Can release vapors that form explosive mixtures at temperatures at or above the flash point. Empty containers retain product residue (liquid and/or vapor) and can be dangerous.
Special Fire Fighting Procedures:	Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to keep containers cool.

VI. Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:	Extinguish any possible ignition source until the area is determined to be free from fire or explosion hazard. Absorb spill with inert material (dry sand or earth), then place in a chemical waste container. Spilled materials should be disposed of according to applicable regulations.
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VII. Handling and Storage

Handling:	Handle all chemicals with care. Ground and bond containers when transferring materials.
Storage:	Keep away from heat, sparks, and flames. Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.

VIII. Exposure Controls/Personal Protection

Engineering Controls:	Local exhaust and ventilation may be necessary to control any air contaminants to within their exposure limits.
Respiratory Protection:	Use a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge when airborne concentrations are expected to exceed exposure limits. Protection by air purifying respirators is limited.
Skin Protection:	Where contact is likely, wear chemical resistant gloves and rubber boots.
Eye Protection:	Wear safety glasses with side shields (or goggles).
Other Protective Equipment:	Emergency eyewash stations and deluge showers should be available in the work area.
Hygienic Practices:	Wash hands before eating. Use only with adequate ventilation. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material.

IX. Physical and Chemical Properties

Boiling Point:	318-376 F	Vapor Density:	Heavier than air
Odor:	N.D.	Odor Threshold:	No Information
Appearance:	Clear yellow	Evaporation Rate:	No Information
Solubility in H2O:	N.D.	Specific Gravity:	0.9195
Freeze Point:	N.D.	pH at 50.0%:	5-8
Vapor Pressure:	N.D.	Viscosity:	No Information
Physical State:	Liquid		
Coefficient of Water Oil Distribution:	No Information		

X. Stability and Reactivity

Conditions to Avoid:	Avoid temperature extremes. Excessive heat causes the vapor pressure to increase rapidly.
Incompatibility:	Avoid contact with strong acids and oxidizers.
Hazardous Decomposition Products:	Oxides of carbon.
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: Combustible liquid, n.o.s.
DOT Technical Name: (Contains 2-Ethylhexanol)
DOT Hazard Class: Comb liq
DOT Hazard Subclass:
DOT UN/NA Number: NA1993
Packing Group: III
Resp. Guide Page:

XV. Regulatory Information

OSHA:	No product information is available.		
TSCA Status:	All components of this product are listed on the Toxic Substance Control Act Inventory or are excluded from the listing requirements.		
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: None		
SARA Section 313 Required Reporting:	Chemical	CAS Number	WT/WT%
	Ethylhexanol	104-76-7	40-70%

XVI. Other Information

Other Information: No Information

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.