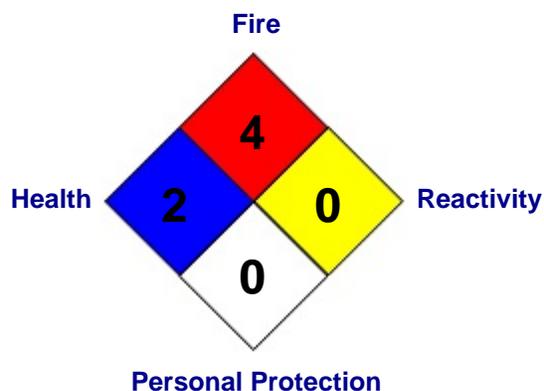




HMS Hazard Rating:

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



I. Chemical Product and Company Identification

Product Name: ParaStop 100
Identification #: 35-515-0100
Product Use/Class: Paraffin & Scale Additives
Supplier: Superior Well Services
Manufacturer: Weatherford Fracturing Technologies
Emergency Contact: CHEMTREC 1 (800) 424-9300
Prepared By: RAA
Date Prepared: 04/17/2008

II. Composition/Information on Ingredients

Chemical Name: Toluene
CAS Number: 108-88-3
Percent by Mass Less Than: 30-60%

Exposure Limits

Threshold Limit Value - Time Weighted Average: 100 ppm
Threshold Limit Value - Short Term Exposure Limit: 150 ppm
Permissible Exposure Limit - Time Weighted Average: 100 ppm
Permissible Exposure Limit - Ceiling: 150 ppm
Company Threshold Limit - Time Weighted Average: NI
Skin: No

Chemical Name: Xylene
CAS Number: 1330-20-7
Percent by Mass Less Than: 30-60%

Exposure Limits

Threshold Limit Value - Time Weighted Average: 100 ppm
Threshold Limit Value - Short Term Exposure Limit: 150 ppm
Permissible Exposure Limit - Time Weighted Average: 100 ppm
Permissible Exposure Limit - Ceiling: NI
Company Threshold Limit - Time Weighted Average: NI
Skin: No

Chemical Name: Proprietary Component
CAS Number: NI
Percent by Mass Less Than: 1-10

Exposure Limits

Threshold Limit Value - Time Weighted Average: NI
Threshold Limit Value - Short Term Exposure Limit: NI
Permissible Exposure Limit - Time Weighted Average: NI
Permissible Exposure Limit - Ceiling: NI
Company Threshold Limit - Time Weighted Average: NI
Skin: No

III. Hazardous Identification

Emergency Overview:	Harmful if swallowed. Flammable liquid and vapor.
Eye Contact:	Severly irritating. If not removed promptly, product will injure eye tissue, which may result in permanent damage
Skin Contact:	May cause skin irritation. Allergic reaction are possible.
Inhalation:	Harmful if inhaled. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor. May be irritating to mucose membranes and lung tissue.
Ingestion:	This material may be harmful or fatal if swolloed. May be irritating to the mouth, throat and stomach.
Chronic Harards:	Overexposure may cause kidney damage. May cause liver disorder (e.g. edema, proteinuria) and damage.

Effects of Overexposure

Primary Route(s) of Entry:	<input type="radio"/> Skin Contact	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Ingestion
	<input type="radio"/> Skin Absorbtion	<input type="checkbox"/> Inhalation	

IV. First Aid Measures

Eye Contact:	Immediately flush eye with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing. 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 immediate medical attention.
Ingestion:	If swallowed, induce vomitting as directed by medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

V. Fire Fighting Measures

Flash Point:	68 F
Auto Ignition Temperature:	Not Determined
Lower Explosive Temp.:	1.0 %
Upper Explosive Temp.:	7.0%
Extinguishing Media:	CO2, Dry Chemical, Alcohol Foam
Unusual Fire and Explosive Harards:	Flammable liquid. Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. "Emty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heatm flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
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. Apply alcohol-type foam or all purpose foam by manufacturers recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

VI. Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches. Wear a self contained breathing apparatus and appropriate personal protective equipment. (See section VIII.) Spilled material should be contained and disposed of properly. Extinguish and possible ignition source intill the area is determined to be free from fire or explosive hazards. Evacuate area.
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VII. Handling and Storage

Handling:	Wash thoroughly after handling.
Storage:	Keep away from heat, sparks, and flame. 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 TLVs during the use of this product.
Respiratory Protection:	A NIOSH/MSHA approve air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive air supply respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Skin Protection:	Where contact is likely, wear chemical resistant gloves and rubber boots, and chemical safety goggles plus a face shield.
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. Remove contaminated clothing and wash before reuse. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

IX. Physical and Chemical Properties

Boiling Point:	230-297 F	Vapor Density:	Is heavier than air.
Odor:	Aromatic	Odor Threshold:	NI
Appearance:	LT Yellow	Evaporation Rate:	Is faster than Butyl Acetate
Solubility in H ₂ O:	Not Determined	Specific Gravity:	0.880-0.910
Freeze Point:	Not Determined	pH at 50.0%:	5.5-8
Vapor Pressure:	Not Determined	Viscosity:	Not Determined
Physical State:	Liquid		
Coefficient of Water Oil Distribution:	Not Determined		

X. Stability and Reactivity

Conditions to Avoid:	None known.
Incompatibility:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, which can act as an asphyxiant. Carbon monoxide, which is toxic if inhaled.
Hazardous Polymerization:	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: No product information is available.

XIV. Transportation Information

DOT Proper Shipping Name: Flammable liquids, n.o.s.
DOT Technical Name: (Contains Toluene and Xylene (RQ Xylene))
DOT Hazard Class: 3
DOT Hazard Subclass:
DOT UN/NA Number: UN1993
Packing Group: II
Resp. Guide Page:

XV. Regulatory Information

OSHA:	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)		
TSCA Status:	No product information is available.		
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, Fire Hazard		
SARA Section 313 Required Reporting:	Chemical	CAS Number	WT/WT%
	Toluene	108-88-3	30-60%
	Xylene	1330-20-7	30-60%

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.