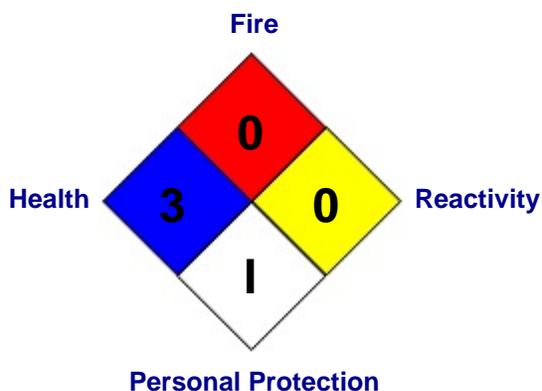




**HMS Hazard Rating:**

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



***I. Chemical Product and Company Identification***

Product Name: Bio Clear 1000  
Identification #: 35-440-1000  
Product Use/Class: Biocide  
Supplier: Superior Well Services  
Manufacturer: Weatherford Fracturing Technologies  
Emergency Contact: CHEMTREC 1 (800) 424-9300  
Prepared By: RAA  
Date Prepared: 03/21/2008

***II. Composition/Information on Ingredients***

Chemical Name: 2,2-Dibromo-3-Nitrilopropionamide  
CAS Number: 10222-01-2  
Percent by Mass Less Than: 97.6

**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: 2mg/m<sup>3</sup>  
Skin: No

### III. Hazardous Identification

Emergency Overview:	May be fatal if swallowed.
Eye Contact:	Corrosive. Will cause eye burns and permanent tissue damage.
Skin Contact:	May cause skin irritation. Allergic reactions are possible. May cause skin sensitization, an allergic reaction which becomes evident on re-exposure to this material.
Inhalation:	May be irritating to mucous membranes and lung tissue.
Ingestion:	This material may be harmful or fatal if swallowed. May be irritating to mouth, throat, and stomach. Single dose oral toxicity is considered moderate.
Chronic Harards:	Excessive exposure may increase the blood and tissue levels of Bromine.

#### Effects of Overexposure

Primary Route(s) of Entry:	<input type="checkbox"/> Skin Contact	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Ingestion
	<input type="checkbox"/> Skin Absorbtion	<input type="checkbox"/> 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:	Immediately flush skin with water for 15 minutes. Remove contaminated clothing. Call a physician.
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. If victim is fully conscious, drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### V. Fire Fighting Measures

Flash Point:	Not Determined
Auto Ignition Temperature:	N/A
Lower Explosive Temp.:	N/A
Upper Explosive Temp.:	N/A
Extinguishing Media:	Alcohol Foam, CO2, Dry Chemical, Water Fog
Unusual Fire and Explosive Harards:	May emit acrid smoke and toxic fumes in fire. Containers can build up pressure if exposed to heat.
Special Fire Fighting Procedures:	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Use water spray, CO2, or dry chemical to extinguish fires. Use water to keep containers cool.

### VI. Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:	Avoid creating dust conditions. Avoid runoff into storm sewers and ditches. Wear a self-contained breathing apparatus and appropriate personal protective equipment. Spilled material should be contained and disposed of properly. Sweep material into a pile and recover to a container.
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## VII. Handling and Storage

Handling:	Handle all chemicals with care. Avoid contact with eyes, skin or clothing. Wear appropriate PPE. Wash thoroughly after handling.
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. Store away from foodstuffs or animal feed.

## 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 approved 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:	Wear chemical resistant gloves, 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. Use only with adequate ventilation. Avoid contact with eyes, skin, and clothing.

## IX. Physical and Chemical Properties

Boiling Point:	N/A	Vapor Density:	0.934 g/ml
Odor:	Disinfectant	Odor Threshold:	Not Determined
Appearance:	White	Evaporation Rate:	Slower than Butyl Acetate
Solubility in H <sub>2</sub> O:	1.5 @ 23 DegC	Specific Gravity:	No Information
Freeze Point:	Not Determined	pH at 50.0%:	Not Determined
Vapor Pressure:	Not Determined	Viscosity:	Not Determined
Physical State:	Powder		
Coefficient of Water Oil Distribution:	Not Determined		

## X. Stability and Reactivity

Conditions to Avoid:	Excessive heat. Avoid temperature extremes.
Incompatibility:	Avoid contact with strong bases.
Hazardous Decomposition Products:	Thermal decomposition may produce carbon dioxides, which can act as an asphyxiant; and carbon monoxide, which is toxic if inhaled. Bromine Compounds
Hazardous Polymization:	Will not occur.
Stability:	This product is stable under normal storage conditions.

## ***XI. Toxicological Properties***

Toxicological Properties: No product information is available.  
Oral: Ingestion: The oral LD:50 is 201 mg/kg (rat)  
Dermal: Skin: The LD:50 for skin is > 2000 mg/kg (rabbit)  
Inhalation: Inhalation: The LC:50 for fine dust is 0.31 mg/l (male rats)  
0.24 mg/l (female rats)

## ***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 data available.

## ***XIV. Transportation Information***

DOT Proper Shipping Name: Toxic solids, organic, n.o.s.  
DOT Technical Name: (2, 2-Dibromo-3-Nitrilopropionamide)  
DOT Hazard Class: 6.1  
DOT Hazard Subclass:  
DOT UN/NA Number: UN2811  
Packing Group: III  
Resp. Guide Page:

## ***XV. Regulatory Information***

OSHA:	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)		
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: Immediate Health Hazard.		
SARA Section 313 Required Reporting:	Chemical	CAS Number	WT/WT%
	2,2-Dibromo-3- Nitrilopropionamide	10222-01-2	97.6

## ***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.