



Safety Data Sheet

EX-23

FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL DAY OR NIGHT CHEMTREC 800-424-9300

SECTION 1 Product Identification

Product Name: **EX-23**

Chemical Family: **Surfactant**

Chemical Name: **Drilling Fluid Additive**

Company Info: **Valence Drilling Fluids LLC / 2575 Kelley Pointe Parkway, Ste 120 Edmond, OK 73013 / (405) 285-6454**

SECTION 2 Composition

Material or Component	CAS Number	Percentage
EX-23	Proprietary	100%

SECTION 3 Hazards Identification

Immediate Health Effects

Product may be irritating to eyes, skin.

Eyes: May cause slight irritation to the eyes. Contact with hot or molten material can cause severe thermal burns.

Skin: May be irritating to the skin. Contact with hot molten material can cause severe burns.

Ingestion: Not anticipated route of exposure. Not expected to be orally toxic.

Inhalation: No adverse effects expected in normal industrial use.

Chronic Health Effects: None known. The components of this product are not known to cause target organ effects. Not listed as carcinogen by IARC, NTP, or OSHA.

SECTION 4 FIRST AID MEASURES

Eyes: Remove contact lenses if worn. Flush thoroughly with large amounts of running water at least 15 minutes. Get medical attention if irritation develops.

Skin: Wash exposed area with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation develops. For hot molten product, immediately immerse and/or flush area with large amounts of cold water. Cover with clean cotton sheeting or gauze and get prompt medical attention.

Ingestion: If person is conscious, immediately rinse mouth and give large quantities of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove person to fresh air. Get medical attention immediately for any breathing difficulty.

SECTION 5 FIRE AND EXPLOSION DATA

Flash Point/Range: >400° F [PMCC]

Flammability Limits: Not determined

Fire Extinguishing Media: Carbon dioxide, dry chemical or regular foam.

Special Fire Fighting Procedures: Evacuate all unnecessary personnel. Wear self-contained breathing apparatus and protection for skin. Mixing water with hot or molten product may cause client splattering due to rapid steam generation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Release or Spill: Stop leak if you can do so without risk. Contain, collect by absorbing on sand, sawdust or other available solids and place in suitable container for reuse or disposal.

Personal Precautions: Wear appropriate protective equipment.

Environmental Precautions: Remove all contaminated water and/or product for removal and treatment. Do not flush to sewer.

SECTION 7 HANDLING AND STORAGE

Handling: Handle only in well-ventilated area. Avoid eye contact. Avoid repeated or prolonged skin contact. Use appropriate protective equipment. Unvented containers may develop pressure. Open with caution. Wash thoroughly after handling. Eyewash stations and safety showers should be easily accessible to areas where product is used.

Storage: Store in a cool, dry, ventilated area. Keep containers closed when not in use. Store hot or molten material under an inert gas blanket to avoid oxidative degradation. Keep away from oxidizing agents and alkalis.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Airborne Exposure Limits: Not Applicable

Ventilation Requirements: None required under normal conditions of use. A system of local and/or general exhaust is recommended in a confined area.

Respiratory Protection: None required under normal conditions of use.

Skin Protection: Wear long sleeved clothing and rubber or neoprene gloves. Use heat resistant gloves for hot or molten material.

Eye Protection: Wear safety glasses with side shields or chemical safety goggles. Use face shield with hot or molten material. Maintain eye wash station in work area.

Other Precautions: As appropriate for work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Semi-Viscous Liquid
Color:	Slightly yellowish White
Odor:	Bland
PH:	8.4-8.8
Specific Gravity:	Approximately 1.02-1.04
Flash Point:	>400°F
Explosion Limits (%):	Not determined
Solubility in Water:	Soluble
Vapor Density (Air=1):	Not determined
Evaporation Rate:	Not determined

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Materials to Avoid: Strong oxidizers, alkalis.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: None Known

SECTION 11 TOXICOLOGICAL INFORMATION

No acute toxicity data is available for product.

Cancer Status: Not listed as carcinogen by IARC, NTP, or OSHA. There are no known chronic effects from exposure to this product.

SECTION 12 ECOLOGICAL INFORMATION

No Eco toxicity data is available. This product is biodegradable under aerobic and anaerobic conditions.

SECTION 13 DISPOSAL

Dispose of absorbed material in accordance with all local, state, and federal regulations. Dispose of contaminated waste in a contained waste treatment system. The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. **Note:** If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

SECTION 14 TRANSPORTATION INFORMATION

UN Proper Shipping Name:	Not regulated as hazardous material
UN Label:	None
UN Number:	None
Hazardous Ingredients:	None
Placards:	None
Reportable Quantity:	None

SECTION 15 REGULATORY INFORMATION

CERCLA:	Not subject to reporting.
TSCA Listed:	Yes
SARA Title III Section 302:	Not listed
SARA Title III Section 311/312:	No
SARA Title III Section 313:	No

SECTION 16 OTHER INFORMATION

NFPA Hazard Codes: Health 1; Flammability 0; Reactivity 0

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