



## SAFETY DATA SHEET (SDS / MSDS)

### Biocide for Drilling Fluids

**Version:** 1.0

**Revision Date:** June 2026

**Product Name:** Basekim Biocide for Drilling Fluids

**Product Use:** Microbial control additive for drilling fluids and oilfield water systems. Designed to control bacteria, fungi, slime formation, biofilms, and microbiologically induced corrosion.

**Important:** The exact chemical composition of Basekim's biocide is not publicly disclosed. This SDS is a professional generic SDS suitable for a broad-spectrum drilling-fluid biocide and should be updated when the final formulation and CAS numbers are available.

## SECTION 1: Identification

**Product Name:** Basekim Biocide for Drilling Fluids

### Recommended Use:

- Water-based drilling fluids
- Completion fluids
- Workover fluids
- Oilfield water systems
- Storage tanks and circulation systems

**Supplier:**  
Basekim



## SECTION 2: Hazard Identification

### GHS Classification

- Acute Toxicity (Oral) – Category 4
- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- Aquatic Toxicity – Category 2

### Signal Word

### WARNING

### Hazard Statements

- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.
- Toxic to aquatic life with long-lasting effects.

### Precautionary Statements

- Avoid contact with skin and eyes.
- Wear protective gloves and safety goggles.
- Do not eat, drink, or smoke while handling.
- Avoid release into the environment.

## SECTION 3: Composition / Information on Ingredients

| Component                 | CAS No.     | Concentration |
|---------------------------|-------------|---------------|
| Proprietary Biocide Blend | Proprietary | 20–60%        |
| Water                     | 7732-18-5   | Balance       |
| Stabilizers / Additives   | Proprietary | <10%          |

*Exact composition withheld as confidential business information.*



## SECTION 4: First Aid Measures

### Inhalation

Move affected person to fresh air. Seek medical attention if symptoms persist.

### Skin Contact

Wash thoroughly with soap and water. Remove contaminated clothing.

### Eye Contact

Flush immediately with water for at least 15 minutes. Obtain medical attention.

### Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

### Most Important Symptoms

- Eye irritation
- Skin redness
- Respiratory discomfort
- Gastrointestinal irritation

## SECTION 5: Fire Fighting Measures

### Suitable Extinguishing Media

- Water spray
- Dry chemical
- Foam
- Carbon dioxide (CO<sub>2</sub>)

### Special Hazards

Thermal decomposition may produce:

- Carbon oxides



- Nitrogen oxides
- Irritating vapors

### Protective Equipment

Wear self-contained breathing apparatus (SCBA).

## SECTION 6: Accidental Release Measures

### Personal Precautions

- Wear appropriate PPE.
- Avoid contact with eyes and skin.
- Ensure adequate ventilation.

### Environmental Precautions

Prevent entry into drains, waterways, and soil.

### Cleanup Procedures

Absorb with sand, earth, or inert absorbent material and place in suitable disposal containers.

## SECTION 7: Handling and Storage

### Handling

- Avoid direct contact.
- Use in well-ventilated areas.
- Follow oilfield chemical handling procedures.

### Storage

- Store in tightly closed original containers.
- Keep in cool, dry, ventilated areas.
- Protect from freezing and excessive heat.

### Storage Temperature

5°C – 40°C recommended.



## SECTION 8: Exposure Controls / Personal Protection

### Engineering Controls

Provide local exhaust ventilation where required.

### Personal Protective Equipment

#### Eyes

- Chemical safety goggles

#### Hands

- Nitrile or neoprene gloves

#### Body

- Protective clothing

#### Respiratory

- Normally not required under normal conditions
- Use approved respirator if mist generation occurs

## SECTION 9: Physical and Chemical Properties

| Property         | Value                           |
|------------------|---------------------------------|
| Appearance       | Clear to light yellow liquid    |
| Odor             | Mild characteristic             |
| pH (1% solution) | 4.0 – 8.0                       |
| Density @ 25°C   | 1.00 – 1.15 g/cm <sup>3</sup>   |
| Solubility       | Completely dispersible in water |
| Flash Point      | >100°C                          |
| Boiling Point    | >100°C                          |
| Viscosity        | Low                             |



Values are typical for drilling-fluid biocide formulations.

## SECTION 10: Stability and Reactivity

### Chemical Stability

Stable under normal storage conditions.

#### Conditions to Avoid

- Excessive heat
- Freezing temperatures
- Strong oxidizing agents

#### Hazardous Decomposition Products

- Carbon oxides
- Nitrogen oxides
- Organic vapors

## SECTION 11: Toxicological Information

### Likely Exposure Routes

- Skin contact
- Eye contact
- Inhalation of mists
- Ingestion

### Potential Effects

- Skin irritation
- Eye irritation
- Respiratory irritation
- Gastrointestinal discomfort

No known chronic effects when used according to recommended industrial practices.



## SECTION 12: Ecological Information

### Ecotoxicity

Biocides are designed to control microorganisms and may be harmful to aquatic organisms.

### Persistence

Dependent on formulation. Certain drilling-fluid biocides supplied by Basekim include biodegradable options.

### Environmental Precautions

Avoid uncontrolled release into surface waters or soil.

## SECTION 13: Disposal Considerations

Dispose of contents and containers in accordance with:

- Local regulations
- National regulations
- Oilfield waste management procedures

Do not discharge concentrated product into waterways.

## SECTION 14: Transport Information

| Item                 | Information                 |
|----------------------|-----------------------------|
| UN Number            | Not Regulated (Typical)     |
| Proper Shipping Name | Biocide Solution            |
| Hazard Class         | As Applicable               |
| Packing Group        | III                         |
| Marine Pollutant     | Avoid environmental release |

Transport classification should be verified based on final formulation.



## SECTION 15: Regulatory Information

Comply with:

- GHS Classification System
- Local environmental regulations
- Oilfield chemical handling requirements

## SECTION 16: Other Information

### Recommended Treatment Levels

- Routine treatment: 100–200 ppm
- Downtime/shock treatment: 1000–1500 ppm depending on contamination levels.

### Shelf Life

12–24 months in unopened original packaging under recommended storage conditions.