



MATERIAL SAFETY DATA SHEET (MSDS)

Shale Inhibitor

Version: 1.0

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1. Product Identification

Product Name: Shale Inhibitor

Recommended Use:

Additive for water-based drilling fluids to prevent shale swelling, clay hydration and wellbore instability.

Supplier: Basekim Chemical Production Co. Ltd.

2. Hazard Identification

GHS Classification: Not classified as hazardous under normal industrial use.

Signal Word: None

Hazard Statements:

Not classified.

Precautionary Statements

- Avoid contact with eyes and prolonged skin contact.
- Wear protective gloves and safety glasses.
- Wash thoroughly after handling.
- Prevent unnecessary release to the environment.
- Clean spills immediately as surfaces may become slippery.



3. Composition / Information on Ingredients

Component	Concentration
Water	50–80%
Shale Inhibiting Polymer / Amine Compound	20–45%
Performance Additives	<5%
Preservative	<1%

Exact composition is proprietary.

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush immediately with clean water for at least 15 minutes.

Ingestion: Rinse mouth with water. Do not induce vomiting. Obtain medical advice if discomfort develops.

5. Fire Fighting Measures

The product is water-based and is not expected to be flammable.

Suitable extinguishing media:

- Water spray
- Foam
- Dry chemical
- Carbon dioxide

Combustion may produce carbon oxides, nitrogen oxides and irritating fumes.

Firefighters should wear self-contained breathing apparatus.



6. Accidental Release Measures

Wear appropriate protective equipment.

Contain spill using sand or inert absorbent.

Collect into suitable containers for disposal.

Prevent product from entering drains or natural waterways.

Wash contaminated area with water after cleanup.

7. Handling and Storage

Avoid unnecessary contact with eyes and skin.

Use with adequate ventilation.

Keep container tightly closed.

Store between 5°C and 35°C.

Protect from freezing and direct sunlight.

Keep away from strong oxidizing materials.

8. Exposure Controls / Personal Protection

Engineering Controls: General ventilation.

Eye Protection: Safety glasses or goggles.

Hand Protection: Chemical-resistant gloves.

Protective Clothing: Standard industrial workwear.

Respiratory Protection: Normally not required under normal handling conditions.



9. Physical and Chemical Properties

Property	Typical Value
Appearance	Clear to light amber liquid
Odor	Mild
pH	7.0–10.0
Density (25°C)	1.00–1.10 g/cm ³
Solubility	Completely soluble in water
Flash Point	Not applicable (water-based)

10. Stability and Reactivity

Stable under recommended storage conditions.

Avoid freezing and excessive heat.

Avoid contact with strong oxidizing agents.

Hazardous polymerization will not occur.

11. Toxicological Information

Low acute toxicity expected.



May cause mild eye irritation.

Prolonged skin contact may cause slight irritation.

Mist may cause temporary respiratory irritation.

Ingestion may cause gastrointestinal discomfort.

12. Ecological Information

Avoid uncontrolled discharge into waterways.

The product is not expected to present significant environmental hazards when used as directed.

Dispose of waste according to local regulations.

13. Disposal Considerations

Dispose of product and contaminated packaging through an approved waste contractor.

Do not discharge concentrated product into drains or natural waters.

14. Transport Information

UN Number: Not regulated

Transport Class: Not regulated



Packing Group: Not applicable

Marine Pollutant: No

Transport in tightly closed containers protected from freezing and physical damage.

15. Regulatory Information

Handle according to applicable national and local chemical safety regulations.

Users are responsible for compliance with regulations applicable in their country.

16. Other Information

This MSDS applies to a typical water-based shale inhibitor used in drilling-fluid applications.

The information is provided in good faith as guidance for safe handling, storage, transportation and disposal. Actual product properties may vary depending on the specific formulation and grade supplied.