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Global Drilling Fluids & Chemicals Limited

Corporate Office:

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MSDS SHEET GLO CHOLINE

Section 1: Product and Company Identification

Product Name	Quaternary Ammonium Salt
Common Name	CHOLINE CHLORIDE
Product Use	Drilling Mud Additive
Product Type	Clay / Shale Stabilizer

Company Identification:

Global Drilling Fluids and Chemicals Limited
Corporate Office and Information Centre

For Product Information and MSDS Requests

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Section 2: Composition /Information On Ingredients

Chemical Characterization	(2-Hydroxy Ethyl Trimethyl Ammonium Chloride)
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Section 3: Hazard Identification

Environmental Effects	Unknown
Physical and Chemical hazards	Non flammable solid

Fire or Explosion	None
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Section 4: First Aid Procedures

Eyes	Hold eyelids apart and flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
Skin	Wash thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.
Ingestion	Drink water to dilute. Never give anything by mouth to an unconscious person. Seek medical attention.
Inhalation	If exposed to a high concentration of dust, remove to fresh air and restore breathing. If not breathing give artificial respiration. Seek medical attention.
Other Instructions	Sensitive individuals should avoid further contact. If irritation persists, seek medical attention. Persons seeking medical attention should carry a copy of this MSDS with them.

Section 5: Fire Fighting Measures

Extinguishing Media	Carbon dioxide, dry chemical, foam and water spray or fog. Use water to cool fire-exposed containers
Fire fighting procedures	Normal fire fighting procedures may be used

Section 6: Accidental Spill / Release Measures:

Steps to be taken is the material is released or spilled	Wear proper protective equipment. Contain the spill and minimize dust. Re-package or recycle if possible, or place in a suitable waste container. Keep out of sewers and waterways.
Spill Management	Avoid Creating a dust Cloud. Shovel Sweep or use industrial vacuum cleaner. Reduce airborne dust or scattering by moistening by water
Reporting	Please follow Local Laws
Disposal	The material must be disposed as per the Regulations of the Local Laws

Section 7: Handling and Storage

Precautions	Use caution to avoid dust and to prevent inhalation of dust. Avoid Breathing material, Keep container closed. Use with adequate ventilation. Avoid contact with eyes , Skin and clothing
Static Hazard	None

General Information	Keep away from oxidizing materials in a cool Dry well ventilated area
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Section 8: Occupational Control Measures / Personal Protection

Respiratory	Wear a high efficiency particulate respirator when exposure exceeds the recommended limits.
Ventilation	Supply natural or mechanical ventilation adequate to keep exposures below the recommended exposure limits.
Skin	Wear appropriate gloves and long protective clothing. Wash thoroughly after handling. Wash clothes and clean shoes before reuse
Eyes	Wear safety glasses with side guards. Insure proper fit for best Protection
Other Protective Equipment	Ordinary measures of personal hygiene should be observed. Avoid contact with eyes, skin and clothing and inhalation of dust.

Section 9: Physical and Chemical Characteristics

PROPERTIES	VALUE
Appearance	White Crystalline Powder
Odor	Slightly Amine Odor
pH of 10% solution	5-7
Solubility	Soluble in Water

Please also see attached Specification Sheet

Section 10: Stability and Reactivity

Stability	Stable under normal conditions of use
Materials to avoid	Strong oxididizer
Hazardous decomposition products	No dangerous reaction , decomposition known with common products
Hazardous Polymerization	Will not occur

Section 11: Toxicological Information

Acute Toxicity	N/A
Eyes	The material is dusty so may cause Irritation to the Eyes.
Skin	Skin irritation may occur in sensitive individuals after repeated or prolonged contact.

Inhalation	Excessive or repeated inhalation may cause respiratory irritation.
Ingestion	Not to be swallowed.

Section 12: Ecological Information

Effects on Aquatic Environment	Unknown
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Section 13 Disposal Considerations

In accordance with local and national regulations provided by the local authorities

Section 14 Transport Information

The material is not regulated for transport of Dangerous Goods: ADR, IATA

Section 15 Regulations Information

NO regulations applicable	
Precautionary Labeling	WARNING! Contains Powdered Material. May cause eye, skin and respiratory tract irritation.
Precautions for transportation handling and Storage	Protect sacks from heat and excessive moisture. Minimize dust exposure during use.

Section 16 Additional Information:

The statements, information, and data provided in this MSDS are believed reliable and accurate by Global Drilling Fluids & Chemicals Limited and its responsible personnel