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## Global Drilling Fluids & Chemicals Limited

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### MSDS SHEET GLO CITRIC ACID

#### Section 1: Product and Company Identification

Product Name	GLO CITRIC ACID
Common Name	Citric Acid
Product Use	Drilling Mud Additive
Product Type	Mixture

#### Company Identification:

Global Drilling Fluids and Chemicals Limited  
 Corporate Office and Information Centre  
**For Product Information and MSDS Requests**  
 75 Sector 27 C Mathura Road,  
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#### Section 2: Composition /Information On Ingredients

Chemical Characterization	Citric Acid
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#### Section 3: Hazard Identification

Adverse human health effect	WARNING! Causes severe eye irritation, causes irritation to the skin and respiratory tract
Environmental Effects	Negligible
Physical and Chemical hazards	Slightly flammable
Other Hazards	No specific hazard under normal condition of use

#### 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
Unusual fire and explosion Hazards	None

#### 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	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues. Avoid contact with eyes, Skin and clothing.
General Information	Keep away from oxidizing materials in a cool dry well ventilated area.

## 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	Opaque White Granules
Solubility@ 20 Deg C	169g/100ml water
Specific Gravity	1.54

Please also see attached Specification Sheet

## Section 10: Stability and Reactivity

Stability	Stable under normal conditions of use
Materials to avoid	Strong oxidizers, Metal nitrates, alkali carbonates and bicarbonates, potassium tartrate. It will corrode copper, zinc, aluminum and their alloys.
Hazardous decomposition products	Carbon dioxide and carbon monoxide may form when heated to decomposition
Hazardous Polymerization	Will not occur

## Section 11: Toxicological Information

Acute Toxicity	Chronic or heavy acute ingestion may cause tooth enamel erosion.
Eyes	Highly irritating, may also be abrasive.
Skin	It Causes irritation to skin. Symptoms include redness, itching, and pain.
Inhalation	It causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.
Ingestion	Not to be swallowed. It Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Calcium deficiency in blood may result in severe cases of ingestion.

## Section 12: Ecological Information

Degradability	Unknown
Effects on Aquatic Environment	Unknown

## 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.

