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MSDS SHEET GLO SCAVENGER 1000

Section 1: Product and Company Identification

Product Name	GLO SCAVENGER 1000
Common Name	Oxygen Scavenger, Ammonium Bisulfite
Product Use	Drilling Fluid Additive , Corrosion Inhibitor
Product Type	Mixture

Company Identification:

Global Drilling Fluids and Chemicals Limited
Corporate Office and Information Centre

For Product Information and MSDS Requests Drilling fluids Division

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Section 2: Composition /Information On Ingredients

Chemical Characterization	Proprietary Blend of active ammonium Bi-Sulphite and other organic chemicals. Ammonium Bi Sulfide :CAS :1092-30-0
HAZ Calcification	NON HAZARDOUS. PLEASE HANDLE AND USE PRECAUTIONS AS A INDUSTRIAL CHEMICAL NO SPECIAL PRECATIONS REQUIRED

Section 3: Hazard Identification

Adverse Human Health Effect	Inhalation will irritate the nose, throat and respiratory tract. Skin and eye contact will cause irritation. Sulfiting agents have been reported to cause reactions in sensitive individuals, even when ingested at very low concentrations.
Environmental Effects	It is considered to be mildly acidic, it contains relatively high concentrations of the ammonium ion, which can be potentially harmful to aquatic organisms, particularly fish.
Physical and Chemical hazards	Non flammable liquid
Other Hazards	No specific hazard under normal condition of use



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Section 4: First Aid Procedures

Eyes	Hold eyelids apart and flush eyes with water for at least 10 minutes. Get medical attention if irritation persists.
Skin	Wash thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention. Completely decontaminate clothing, shoes and leather good before reuse or else discard.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink water. If vomiting occurs naturally, have victim rinse mouth with water again. Obtain medical advice and bring a copy of this MSDS
Inhalation	If exposed to a high concentration of chemical, 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	This product is not considered a fire or



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Section 6: Accidental Spill / Release Measures:

Steps to be taken if the material is released or spilled	Protective clothing, gloves, and a combination acid gas respirator are recommended for persons responding to an accidental release. Splash goggles or face shield should be worn to prevent eye contact with mist or spray where splashing is possible.
Waste Disposal method	This product is a RCRA hazardous waste. Product or non-RCRA empty containers are hazardous waste. The material must be disposed as per regulations of the local laws.
Environmental precautions	Avoid discharge into drains/sewers or waterways
Reporting	Please follow Local Laws
Methods of cleaning up	Stop release if possible to do so safely. Contain spill, isolate hazard area, and deny entry. Pump back into system if possible. Otherwise, neutralize with alkali such as sodium carbonate or sodium bicarbonate, soda ash, lime or limestone granules. Dispose of spilled material and neutralization residues in accordance with applicable regulations

Section 7: Handling and Storage

Handling	Handling and use in accordance with good occupational hygiene and safety practice.
Storage Incompatible products	Strong oxidizing and reducing agents
Storage	Store in a cool dry place, stable under normal storage conditions
Packaging materials	Steel drums



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Section 8: Occupational Control Measures / Personal Protection

Respiratory	Where sulfur dioxide or liquid aerosol mists are generated and cannot be controlled to within acceptable levels, use appropriate NIOSH-approved respiratory protection equipment and acid gas cartridge).Wear a high efficiency particulate respirator when exposure exceeds the recommended limits.
Ventilation	Use adequate local or general ventilation to maintain the concentration of ammonium bisulfite aerosol mists and sulfur dioxide below recommended occupational 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	Yellowish colored solution free from foreign particles
Specific Gravity	1.30 - 1.40
PH	3-5
Solubility	Soluble in Fresh Water
Ammonium Bisulphite percentage by mass	65% Min

Please also see attached Spe



Section 10: Stability and Reactivity

Stability	This material is stable and not considered reactive under normal temperatures and pressures.
Materials to avoid	Avoid contact with acids - may liberate sulfur dioxide. Also avoid strong oxidizers and materials that react violently with water. Ammonium Bisulfite is not compatible with copper, zinc or their alloys
Hazardous decomposition products	Hazardous polymerization or runaway reactions will not occur.
Hazardous Polymerization	Will not occur

Section 11: Toxicological Information

General Toxicity	A skin, eye and mucous membrane irritant. Only moderately toxic by ingestion but may cause a severe allergic reaction in some asthmatics and others who are hypersensitive to sulfites. Hazards are largely those from acute exposure or direct contact rather than chronic or repeated low level exposure.
Skin	Exposure to mists or aerosols of this solution will cause eye irritation with possible discomfort, tearing, or blurring of vision. Direct skin contact with the solution causes irritation with discomfort, reddening and, rarely, an allergic reaction.
Inhalation	Acute inhalation of mists or released SO ₂ will result in irritation of the nose, throat and upper respiratory passages. Symptoms may include discomfort, coughing, wheezing, shortness of breath and tightness in the chest.
Ingestion	Ingestion of ammonium bisulfite solution will irritate the gastrointestinal tract due to the liberation of sulphurous acid. Large doses may cause nausea and vomiting. May cause a severe allergic reaction in some asthmatics and sulfite-sensitive persons with symptoms of broncho constriction, bronchospasm, gastrointestinal disturbances, flushing,

	hypotension.
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Section 12: Ecological Information

Degradability	unknown
Effects on Aquatic Environment	This product is a slightly acidic solution that has the potential to be toxic to aquatic organisms (in particular, fish

Section 13 Disposal Considerations

In accordance with local and national regulations provided by the local authorities. Do not wash down drain.

Section 14 Transport Information

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

Section 15 Regulations Information

Regulations applicable	Ammonium Bisulfite Solution CAS No. 10192-30-0
Precautionary Labeling	WARNING! Contains liquid material May cause eye, skin irritation.
Precautions for transportation handling and Storage	Protect drums from heat and excessive moisture.

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; however, no other guarantee, representation, warranty or responsibility is expressed or implied to any user, regardless of reliance on all or any part thereof. This includes warranties of merchantability or of fitness for a particular purpose, and Global Drilling Fluids & Chemicals Limited assumes no responsibility whatsoever for advice or recommendations made. Noting Containing herein should be interpreted as Permission, Inducement or Cantonment

Revision 02/20/10/07