

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **December 8, 2009**
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PRODUCT NAME: **SODIUM METABISULFITE**

PRODUCT USE: Oilwell drilling fluid additive
CHEMICAL FAMILY: Inorganic salt CAS#: 7681-57-4

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2B
WORKPLACE HAZARD: Skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not regulated under TDG
TDG CLASSIFICATION: Not applicable
UN NUMBER (PIN): Not applicable
PACKING GROUP: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>% (w/w)</u>	<u>CAS NUMBER</u>	<u>LD₅₀ Oral-Rat</u>	<u>LC₅₀ Inhal-Rat</u>	<u>ACGIH-TLV</u>
Sodium metabisulfite	99	7681-57-4	115 mg/kg	Not available	5 mg/m ³ (8 hr)

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX] INGESTION
EYE CONTACT: May cause irritation or severe burns with prolonged exposure.
SKIN CONTACT: May cause mild irritation with prolonged exposure. Sulfite sensitive individuals may experience a severe allergic reaction.
INGESTION: May produce gastrointestinal upset, nausea or vomiting. Ingestion of large doses may be fatal. Sulfite sensitive individuals may experience a severe and deadly allergic reaction.
INHALATION: May cause irritation. This product in contact with heat, water, ice, acids or oxidizing agents releases sulfur dioxide gas which may be harmful or deadly when inhaled.

CARCINOGENICITY: No information available.
TERATOGENICITY: No information available.
REPRODUCTIVE TOXICITY: No information available.
MUTAGENICITY: No information available.
SENSITIZATION: No information available.
SYNERGISTIC PRODUCTS: No information available.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing. Wipe excess material from skin. Rinse affected area running water for 15 minutes. If irritation persists, or prolonged contact has occurred, obtain medical attention.

EYE CONTACT: Immediately flush with gently flowing warm water for 15 minutes, or until irritation ceases, holding eyelids open. Remove contact lens, if present. When flushing is completed, obtain medical attention.

INGESTION: Do not induce vomiting. Rinse mouth and give 8 oz of water. If vomiting occurs, keep head below hips to prevent aspiration, and re-administer water. Obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

INHALATION: Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	White granular solid; slight sulfur dioxide odour
SPECIFIC GRAVITY:	1.4
BOILING POINT (°C):	Not applicable
MELTING POINT (°C):	Decomposes at ~150
SOLUBILITY IN WATER:	45% by wt. pH: 4.5 (1% sol'n)
PERCENT VOLATILE BY VOLUME:	Not applicable
EVAPORATION RATE:	Not applicable
VAPOUR PRESSURE (mmHg):	Not applicable
VAPOUR DENSITY (air = 1):	Not applicable
BULK DENSITY:	Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not flammable
FLAMMABLE LIMITS:	Not applicable

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PROCEDURES:	Foam. DO NOT use water to water. Self-contained breathing apparatus required for fire fighting personnel. Remove containers from fire area if possible.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	CAUTION: When mixed with water, or heated above 150°C, product releases sulfur dioxide (SO ₂) gas.

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Contact with excess heat (>150°C), oxidizers, acids, water or ice releases sulfur dioxide gas which may be harmful or deadly if inhaled. Contact with strong oxidizers causes strong exothermic reaction.	
CONDITIONS OF REACTIVITY:	Decomposes at temperatures above 150°C. Contact with incompatible materials.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Sulfur dioxide.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	In case of significant or accidental dust emissions an approved dust mask or respirator should be worn. If sulfur dioxide gas is present use an approved respirator or SCBA.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of dust in air below TLV, and if sulfur dioxide is present.
PROTECTIVE GLOVES:	Suggest gloves be worn when handling.
EYE PROTECTION:	Wear chemical safety goggles.
OTHER PROTECTIVE EQUIPMENT (Specify):	Wear clothing adequate to protect against exposure. Ensure eye-wash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Discard, or thoroughly clean, all contaminated clothing and footwear before reuse. Keep container closed when not in use. Use with adequate ventilation. Store in a cool, dry area away from oxidizers and heat sources. Empty packages contain residual hazardous material; handle and store as if full.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Stop leak if possible to do so without risk. Avoid creating dust clouds during clean-up. Use vacuum to collect small spills. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Do not use water for clean-up. Do not flush to drain. Prevent material from entering public sewer system or any waterway.

WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Dispose, or recycle, empty containers in accordance with local regulations.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH,
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: December 8, 2009 BY: Product safety committee
SUPERSEDES: December 12, 2006 PHONE: 780-440-4923

**Diversity Technologies Corp. is the parent company of
Canamara-United Supply, Hollimex Products, The Drilling Depot and
Westcoast Drilling Supplies.**