

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **September 15, 2010**
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PRODUCT NAME: **Sodium Sulfite, Catalyzed**

PRODUCT USE: Oxygen scavenger
CHEMICAL FAMILY: Sodium sulfite; inorganic salt CAS #: 7757-83-7

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A
WORKPLACE HAZARD: Very toxic; contains a carcinogen

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 sulfite | 60 - 100 | 7757-83-7 | 820 mg/kg (mouse) | >5.5 mg/L/4 hr (dust) | Not established |
| Sodium metabisulfite | 1 - 5 | 7681-57-4 | 115 mg/kg | Not available | Not established |
| Cobalt sulfate | 0.1 – 1.0 | 13455-34-0 | Not available | Not available | 0.02 mg/m ³ |

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: **[XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX] INGESTION**
EYE CONTACT: **May cause mild irritation.**
SKIN CONTACT: **May cause mild irritation from prolonged contact. Solutions will irritate.**

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| INGESTION: | May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death. |
| INHALATION: | May cause mild irritation of the respiratory tract. Sulphite sensitive individuals may experience a severe allergic reaction. Contact with heat, water, acids or oxidizers releases sulphur dioxide gas which may be harmful or deadly when inhaled. |
| CARCINOGENICITY: | Cobalt and its compounds have been shown to cause cancer in laboratory animals (IARC Group 2B). |
| TERATOGENICITY: | No information available. |
| REPRODUCTIVE TOXICITY: | No information available. |
| MUTAGENICITY: | No information available. |
| SYNERGISTIC PRODUCTS: | No information available. |

SECTION IV: FIRST AID MEASURES

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| SKIN CONTACT: | Immediately flush with water for 15 minutes. Remove contaminated clothing and footwear. Obtain medical attention. Launder clothing before reuse. |
| EYE CONTACT: | Immediately flush with gently flowing warm water for at least 15 minutes, or until irritation ceases. Remove contact lenses (if present) and hold eyelids open to ensure thorough flushing. Obtain medical attention. |
| INGESTION: | Do not induce vomiting. If victim is fully conscious, give a little water or milk. Obtain immediate 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. Obtain medical attention. |

SECTION V: PHYSICAL DATA

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| APPEARANCE AND ODOUR: | White crystals; slight sulfur dioxide-like odour |
| SPECIFIC GRAVITY: | 2.6 |
| BOILING POINT (°C): | Not available |
| MELTING POINT (°C): | Not available |
| SOLUBILITY IN WATER: | 17% by wt @ 10°C pH: 8 – 8.4 (1% solution) |
| 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 applicable
 FLAMMABLE LIMITS: Not applicable
 EXTINGUISHING MEDIA: Use dry chemicals, CO₂ or foam. Do not use water.
 SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel. Remove containers from fire area, or cool with water spray, if possible.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposes at temperatures >150°C to produce toxic/corrosive sulfur oxides.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE [XX] UNSTABLE []
 INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizers cause vigorous exothermic reactions. Contact with heat, water, acids or oxidizers releases toxic/corrosive sulphur dioxide gas which may be harmful or deadly when inhaled.
 CONDITIONS OF REACTIVITY: Contact with incompatible materials.
 HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide gas-toxic and corrosive. Sodium sulphide residue-flammable, dangerous fire risk, strong irritant to skin and tissue, incompatible with acids.
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved dust mask or respirator.
 VENTILATION: Use local exhaust ventilation, process enclosure or other engineering controls to control dust.
 PROTECTIVE GLOVES: Impervious gloves recommended.
 EYE PROTECTION: Suggest chemical safety goggles (do not wear contact lenses).
 OTHER PROTECTIVE EQUIPMENT (Specify): Suggest rubber apron. Long-sleeved shirt & trousers. Ensure eye wash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with eyes, skin, and clothing. Avoid breathing dust or mist. When dissolving, add to water cautiously while stirring. Use adequate ventilation if dust cloud is created or if there is a release of sulfur dioxide gas. Use good personal hygiene and housekeeping practices. Wash thoroughly after handling. Store in a cool, dry area away from acids or oxidizers. Keep container closed. Protect from physical damage. Handle empty containers as if full.

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

Wear suitable personal protective equipment. Evacuate area of nonessential personnel. Sweep up spilled material. Collect uncontaminated material for repackaging. Collect contaminated material for disposal. Wash spill area thoroughly with water after cleanup.

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. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be disposed of, or recycled, according to local regulations.

SECTION IX: PREPARATION

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

DATE ISSUED: September 15, 2010 BY: Product safety committee
SUPERSEDES: May 12, 2008 PHONE: 780-440-4923

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