

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **May 12, 2008**
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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
Sodium sulfate	0.5 - 1.5	7757-43-3	5989 mg/kg (mouse)	Not available	Not established
Cobalt sulfate	0.1 1.0	10124-43-3	424 mg/kg	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: Dust or mist may irritate or burn eyes. Solutions will irritate or burn.
SKIN CONTACT: Dust or mist may cause irritation from prolonged contact. Solutions will irritate.

INGESTION:	Ingestion may irritate gastrointestinal tract. 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:	Inhalation of dust may irritate respiratory tract.
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

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 to an unconscious or convulsing victim.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. Obtain medical attention.

SECTION V: PHYSICAL DATA

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, CO ₂ 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 to produce toxic/corrosive sulfur oxides.

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizers cause vigorous exothermic reactions. Acids release sulfur dioxide gas.	
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: May 12, 2008 BY: Product safety committee
SUPERSEDES: April 27, 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.**