

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Matrix Drilling Fluids Ltd.** DATE: Oct 4, 2010
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Calgary, AB T2P 0M2 FAX: 403-802-3630

PRODUCT NAME: **Matrix D-Worm 1**

PRODUCT USE: Oil well drilling additive (viscosifier)

CHEMICAL FAMILY: Polysaccharide Suspension CAS #: No Hazardous
 Ingredients

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: NOT WHMIS REGULATED
 WORKPLACE HAZARD: Not applicable

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>PERCENT</u>	<u>CAS NUMBER</u>	<u>LD₅₀ Oral-Rat</u>	<u>LC₅₀ Inhal-Rat</u>	<u>ACGIH-TLV</u>
NO HAZARDOUS INGREDIENTS					

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [X] INHALATION [X] INGESTION
 EYE CONTACT: Mechanical Irritation
 SKIN CONTACT: No adverse reaction expected.
 INGESTION: Low oral toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.
 INHALATION: Vapours, mists or fumes may cause slight irritation to the respiratory tract.
 CARCINOGENICTY: Not determined.

TERATOGENICITY: Not determined.
REPRODUCTIVE TOXICITY: Not determined.
MUTAGENICTY: Not determined.
DEVELOPMENTAL TOXICITY: Not determined.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Flush skin with soap and water for five minutes after contact. Seek medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

EYE CONTACT: Flush eyes immediately with water for at least 15 minutes. Seek medical attention.

INGESTION: If swallowed, do not induce vomiting. Keep at rest. Seek medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep at rest. Seek medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: Opaque dark brown liquid; Little odour

SPECIFIC GRAVITY: 1.054

BOILING POINT (°C): 280°C

MELTING POINT (°C): Not determined

SOLUBILITY IN WATER: insoluble

PERCENT VOLATILE BY VOLUME: Not determined

VAPOUR PRESSURE (mmHg): Not determined

EVAPORATION RATE: Not determined

VAPOUR DENSITY (AIR=1): Not determined

pH: Not determined

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >100°C (TCC)

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: CO₂; foam; dry chemical; water spray

SPECIAL FIRE FIGHTING PROCEDURES: Use full protective equipment and self-contained breathing apparatus required for fire fighting personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Forms slippery compound when mixed with water.

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizing agents. Strong reducers	
CONDITIONS OF REACTIVITY:	Not determined.	
HAZARDOUS DECOMPOSITION PRODUCTS:	CO _x , smoke on combustion	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES**SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION:	Use NIOSH/MSHA approved respiratory product when airborne exposure is excessive
VENTILATION:	General mechanical
PROTECTIVE GLOVES:	Chemically resistant
EYE PROTECTION:	Safety glasses
OTHER PROTECTIVE EQUIPMENT (Specify):	None

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Store in a cool well ventilated area.

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

Clean up with suitable absorbent. Store contaminated absorbent in closed container, dispose according to local regulations.

WASTE DISPOSAL METHOD

Dispose of waste material at an approved (hazardous) waste treatment / disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage, or sewer systems.

SECTION IX: PREPARATION

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

DATE ISSUED: October 4, 2010

BY: Product safety committee