

Material Safety Data / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD.

8069 River Way, Delta, British Columbia,
Canada V4G 1L3
Ph. (604) 940-6050 Fax (604) 940-6080

EMERGENCY 1-800-665-6645

SECTION 1: IDENTIFICATION OF PRODUCT

PRODUCT NAME: **CLAY STABILIZER**

PRODUCT USE: Drilling Fluid Additive

CHEMICAL FAMILY: Amine salts

WHMIS CLASSIFICATION: D2B

WORK PLACE HAZARD: Skin and Eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: not applicable

PACKAGE GROUP: not applicable

SHIPPING NAME: not regulated

PRODUCT IDENTIFICATION NUMBER (Pin): not applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENTS</u>	<u>PERCENT (%)</u>	<u>CAS #</u>	<u>LD₅₀ (oral rat)</u>	<u>LD₅₀ (dermal rabbit)</u>	<u>LC₅₀ (inhalation rat)</u>
1,6-Hexanediamine	30 - 60	124-09-4	750 mg/kg	1110 mg/kg	not determined
Formic Acid	10 - 30	64-18-6	1100 mg/kg	not determined	not determined

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY [XXX] Skin [XXX] Eye Contact [XXX] Inhalation [XXX] Ingestion

THRESHOLD LIMIT VALUE : not determined

SKIN CONTACT : not expected to be problem under normal conditions of use.
Liquid may cause irritation.
Due to the pH of the sample the corrosive properties of the individual components are not present.
LD₅₀ (skin, rabbit) 3700 mg/kg based on components.

INGESTION : Due to the pH of the mixture, the corrosive properties of the individual components are not present in the mixture.
LD₅₀ (oral rat) 2200 mg/kg based on components.

INHALATION : Not expected to be a problem under normal conditions of use.
Due to the pH of the mixture, individual components have rendered non-volatile.
4 hour LC₅₀ (rat) > 3200 mg/m³ based on components.

SECTION IV: TOXICOLOGICAL INFORMATION

CARINOGENICITY not determined

REPRODUCTIVE TOXICITY not determined

TERATOGENICITY not determined

MUTAGENICITY not determined

DEVELOPMENTAL TOXICITY not determined

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SECTION V: FIRST AID MEASURES

SKIN CONTACT	: In case of skin contact, immediately flush contacted area for at least 15 minutes with water. Remove contaminated clothing immediately and launder before reuse. If irritation develops consult a doctor.
EYE CONTACT	: In case of contact with eyes, flush with water for at least 15 minutes. Seek immediate medical attention.
INGESTION	: If victim is conscious, give water. Do not induce vomiting. Seek immediate medical attention.
INHALATION	: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

SECTION VI: PHYSICAL DATA

APPEARANCE	: Clear liquid
ODOR	: Odourless
SPECIFIC GRAVITY	: 1.07
BOILING POINT (°C)	: >100°
MELTING POINT (°C)	: <-35°C
PERCENT VOLATILE BY VOLUME	: not determined
SOLUBILITY IN WATER	: Soluble
EVAPORATION RATE	: not determined
VAPOR PRESSURE (mm Hg)	: not determined
VAPOR DENSITY (Air = 1)	: not determined
pH	: 9 - 10

SECTION VII: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	: >100°C (TCC)
FLAMMABLE LIMITS	: not applicable
EXTINGUISHING MEDIA	: Water, dry chemical, foam
SPECIAL FIRE FIGHTING PROCEDURES	: Self-contained respirators required for fire-fighting personnel
UNUSUAL FIRE AND EXPLOSION HAZARDS	: none known

SECTION VIII: REACTIVITY DATA

STABILITY	[XXX] Stable	[] Unstable
INCOMPATIBILITY (Conditions to avoid)	: Strong Oxidizers	
CONDITION OF REACTIVITY	: not known	
HAZARDOUS DECOMPOSITION PRODUCTS	: CO _x , NO _x	
HAZARDOUS POLYMERIZATION	: [XXX] Will not occur	[] May occur

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SECTION IX: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Not expected to be a problem under normal use
VENTILATION	General mechanical, 10 changes per hour
PROTECTIVE GLOVES	Chemically resistant
EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT (Specify)	Suggest rubber apron

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

Wear protective equipment.
For spills dike and pick up spilled material, dispose of in approved waste containers.
Keep out of sewers, storm drains, surface waters and soil.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, dry, well-ventilated place away from incompatible materials.
Wash thoroughly after handling.
Do not get in eyes, on skin, or on clothing.
Do not cut, grind, weld, or drill on or near this container.
Containers, even those that have been emptied, will retain product residue, always obey hazard warnings and handle empty containers as if they were full.

WASTE DISPOSAL METHOD

Dispose of contaminated product and material used in cleaning up spills or leaks in a manner approved for this material.
Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

SECTION X: PREPARATION

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

DATE ISSUED: May 2001
SUPERSEDES: March 1997

DATE REVISED: April 1, 2000
DATE REVISED: January 2002

BY: Product Safety Committee

Review date: March 31/03

Authorized by: Alan Lelache