

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **CORINOX**  
 OTHER MEANS OF IDENTIFICATION: **None**  
 RECOMMENDED USE: **Oilwell drilling fluid additive**  
 RESTRICTIONS ON USE: **None known**  
 SUPPLIER IDENTIFIER: **Di-Corp**  
**8750-53 Ave**  
**Edmonton, AB T6E 5G2**  
**780-440-4923**  
 EMERGENCY PHONE NUMBER: **780-468-4064**

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Acute toxicity (oral) – Category 4  
 STOT-SE (Target organs: CNS) – Category 3  
 STOT-RE (Target organs: kidney, liver) – Category 2

LABEL SYMBOLS:



SIGNAL WORD:

**WARNING**

CLASSIFICATION INFORMATION:

Harmful if swallowed.  
 May cause drowsiness or dizziness.  
 May cause damage to organs (kidney, liver) through prolonged or repeated oral exposure.

OTHER HAZARDS:

None known.

PRECAUTIONARY STATEMENTS:

Wash face, hands and any exposed skin thoroughly after handling.  
 Do not eat, drink or smoke when handling this product.  
 Do not breathe mist/vapors.  
 Get medical attention/advice if you feel unwell.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or doctor/physician if you feel unwell.  
 IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell. Rinse mouth.  
 Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
 Dispose of contents/container to an approved waste disposal plant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Ethylene glycol	107-21-1	10 - 30
Sodium sulfite	7757-83-7	5 - 10

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and wash contaminated skin thoroughly with soap and water. If irritation persists, or develops, obtain medical attention.  
 EYE CONTACT: Immediately flush with gently flowing, warm water for at least 15 minutes. Remove contact



lenses if present. Hold eyelids open to ensure thorough flushing. If irritation persists, obtain medical attention.

**INGESTION:** Do not induce vomiting. If conscious, rinse out mouth and give 240 to 300 mL of water to drink. If spontaneous vomiting occurs, keep head below hips to prevent aspiration, and give more water. Obtain immediate medical attention or contact Poison Control Center. If medical assistance is not immediately available and victim has swallowed a moderate amount of product, give three to four ounces of hard liquor. For children give proportionately less liquor according to weight. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

**INHALATION:** Move to area free from contaminants. Apply oxygen or artificial respiration if required. Obtain immediate medical attention or contact Poison Control Center.

**MOST IMPORTANT SYMPTOMS / EFFECTS:** May cause skin and eye irritation. May be harmful if swallowed. Ingestion of large amounts may result in organ damage or even death.

**IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:** If swallowed, contact POISON CENTER immediately. Treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Use media appropriate for packaging and surrounding materials.

**UNSUITABLE EXTINGUISHING MEDIA:** None.

**SPECIFIC FIRE HAZARDS:** Noncombustible. May burn under fire conditions if solvent is boiled off.

**HAZARDOUS COMBUSTION PRODUCTS:** Not available.

**SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:** Self-contained breathing apparatus required for fire-fighting personnel. Move containers from fire area, or cool with water spray, if possible.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Eliminate ignition sources. Stop leak if possible to do so without risk.

#### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Small spills; soak up with absorbent material; collect used absorbent material in approved containers for disposal. Large spills; dike to prevent spread; collect diked material with vacuum truck. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Treat remaining material as a small spill. Wash spill area thoroughly with water. Ensure spilled material does not enter storm sewers or public waterways.

### SECTION 7: HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Launder contaminated clothing before reuse.

#### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from incompatible materials and ignition sources. Keep container tightly closed when not in use. Store unused material in original container. Follow all directions for use given on container label. Empty packages contain residual hazardous material and should be stored and handled as if full.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE LIMITS:	No product data available.
	Component data: Ethylene glycol: ACGIH-TLV = 100 mg/m <sup>3</sup>
ENGINEERING CONTROLS:	Use only with adequate ventilation. Use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.
	<b>PERSONAL PROTECTIVE MEASURES</b>
RESPIRATORY PROTECTION:	Use approved respirators with organic vapor cartridges if airborne mist/vapor concentration exceeds limits.
PROTECTIVE GLOVES:	Rubber or viton gauntlets recommended.
EYE PROTECTION:	Wear chemical goggles when handling.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	Clear colourless liquid.
ODOUR:	Little odour.
ODOUR THRESHOLD:	Not available.
pH:	7 – 9
MELTING POINT / FREEZING POINT:	<-25°C
BOILING POINT / RANGE:	Not available
FLASH POINT:	Not available
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not combustible
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY:	Not applicable
RELATIVE DENSITY:	1.20
SOLUBILITY:	Miscible with water.
PARTION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not available

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:	Not reactive.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal conditions of use.
CONDITIONS TO AVOID:	Not available.
INCOMPATIBLE MATERIALS:	Strong oxidizers, strong acids and water reactive materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### PRODUCT TOXICITY

No product toxicity data available.

### COMPONENT TOXICITY

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Ethylene glycol	4000 mg/kg (rat)	9530 uL/kg (rabbit)	Not available

No toxicity data available for other components.

SKIN CONTACT:	Prolonged contact or repeated exposure may cause skin irritation. May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis.
EYE CONTACT:	Liquid, vapour or mist causes irritation, experienced as stinging, excess blinking and tear production, with redness of the conjunctiva. Injury to the cornea is not expected.
INGESTION:	May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar pain oligurea, uremia and CNS effects including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary oedema may develop. Severe kidney damage follows the swallowing of large amounts of ethylene glycol. May be fatal. Animal toxicity values do not meet criteria, but ethylene glycol is more toxic to humans and there are numerous human case reports of toxicity and death published in the literature.
INHALATION:	Because of low vapour pressure, significant amounts of airborne vapours are not expected at room temperatures. Mist may cause irritation of the nose and throat with headache. Heated vapours may produce nausea, vomiting, headache, dizziness and irregular eye movements.
CARCINOGENICITY:	Not listed by NTP, IARC, OSHA or ACGIH.
TERATOGENICITY:	Ethylene glycol is teratogenic, fetotoxic and embryotoxic in animal studies.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	Ingestion of ethylene glycol may cause kidney damage.

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No product information available. Ethylene glycol LC50 (fathead minnow) = 100 mg/L/96hr LC50 (daphnia magna) >100 mg/L/48hr EC50 (algae(selanastrum capricornutum)) >100 mg/L/96hr EC50 (bacteria (ceriodaphnia)) > 100 mg/L/16hr
PERSISTENCE AND DEGRADABILITY:	Not available
BIOACCUMULATIVE POTENTIAL:	Not available
MOBILITY IN SOIL:	Not available
OTHER ADVERSE EFFECTS:	None know.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of 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 recycled, or disposed of, in accordance with local regulations.

### SECTION 14: TRANSPORTATION INFORMATION

TDG	Not regulated
DOT	Not available
IATA	Not regulated
IMDG	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not available
BULK TRANSPORT:	Not regulated
SPECIAL PRECAUTIONS:	None

### SECTION 15: REGULATORY INFORMATION

DSL:	Listed
WHMIS CLASS:	D1B, D2A, D2B
TSCA:	Listed

### SECTION 16: OTHER INFORMATION

REVISION DATE:	March 20, 2017
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